

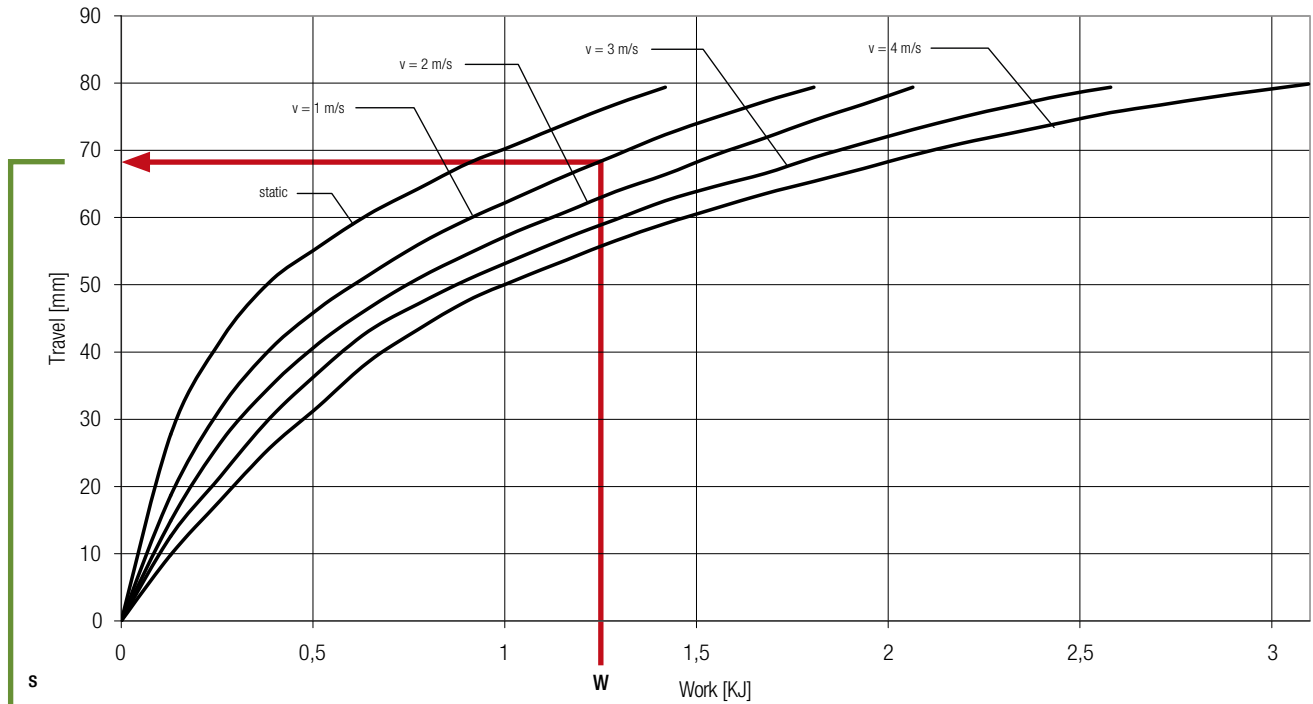
Load Diagrams

Program 0180 Cellular Buffers

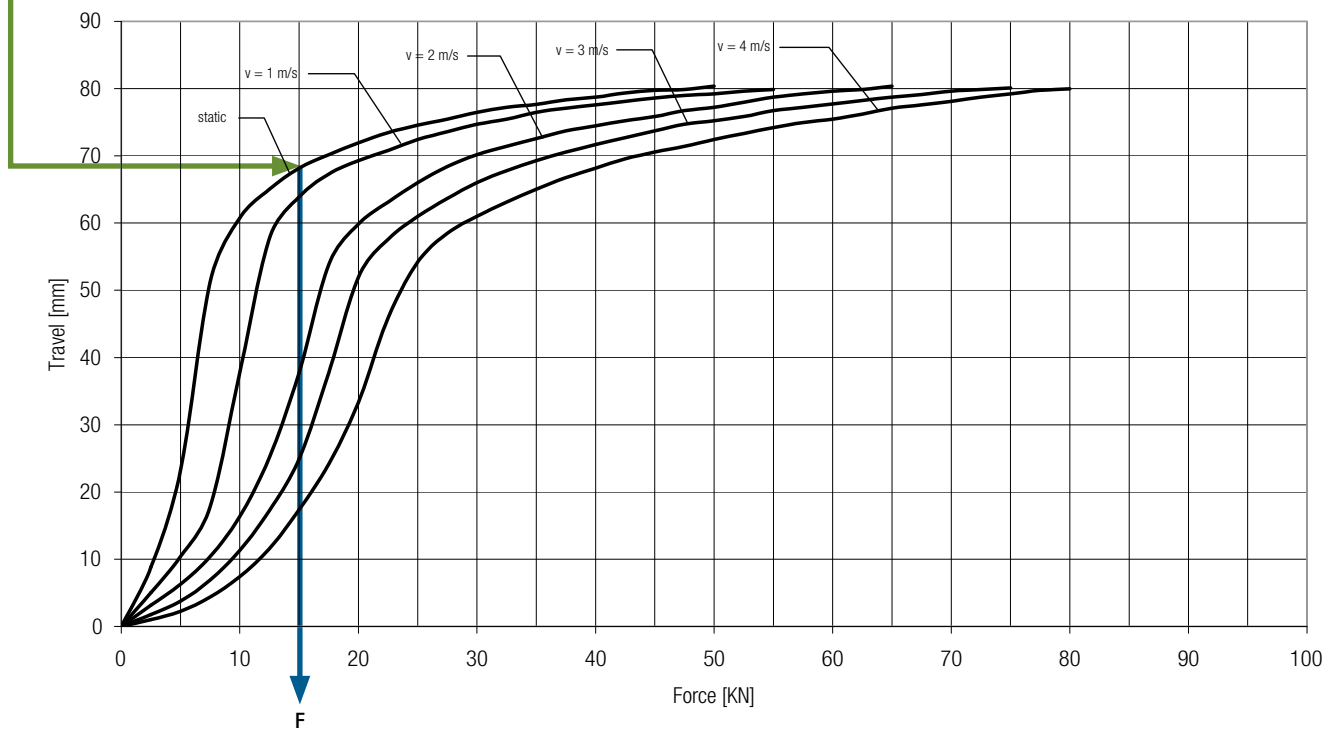


Calculation Example

100 x 100 Energy absorption



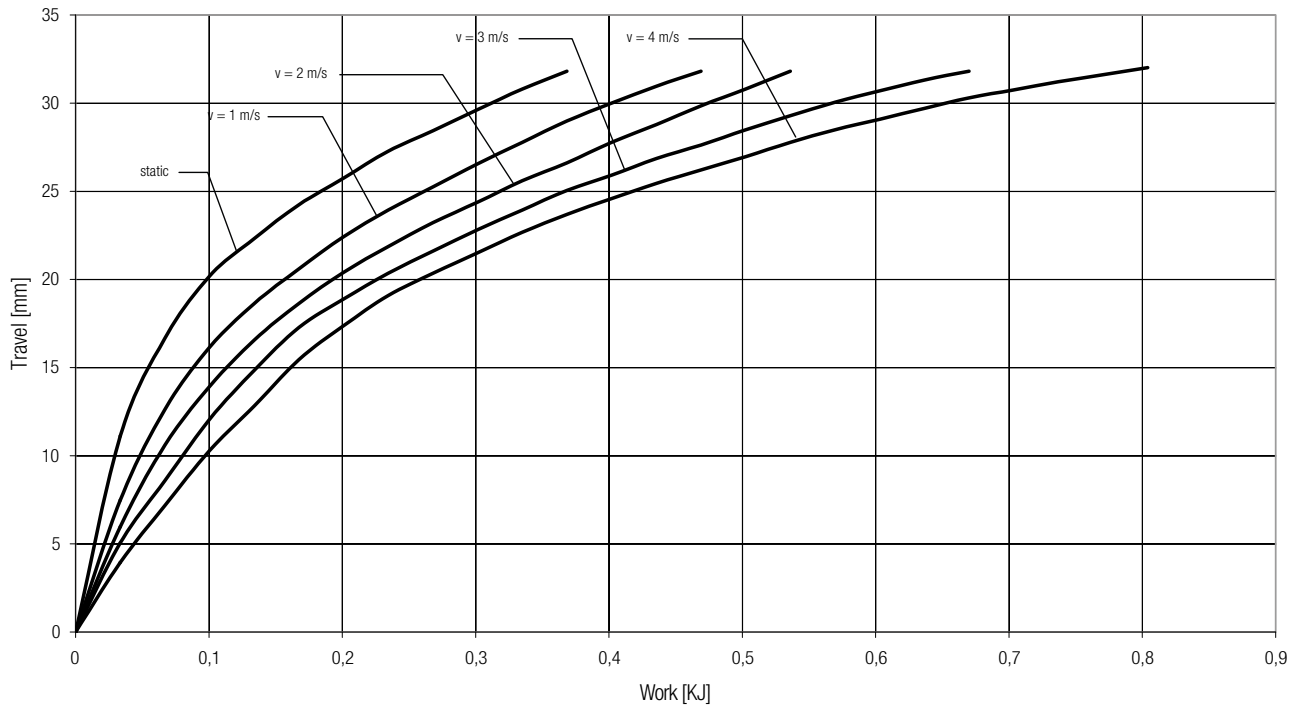
100 x 100 Final load



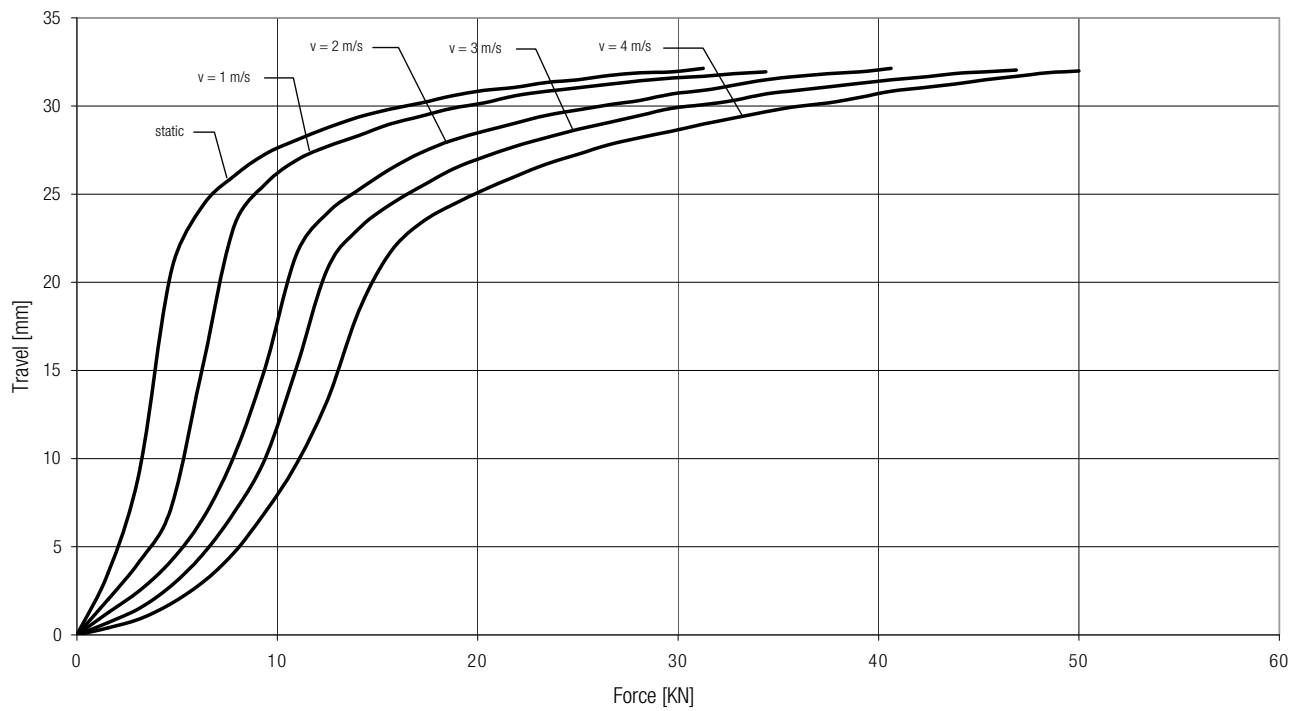
1. Calculation of energy per buffer: $W = \frac{1}{2} m \times v^2$
2. Readout compression length from the diagram
3. Readout final load of the buffer from the table
4. Result and verification
 - $S < 0,8 \times h$
 - $F < F_{max}$ of the crane structure
 - $a = v^2/2S < a_{max}$

W = Energy Absorption [J]
s = Travel [mm]
F = Force [kN]
v = Velocity [m/s]
m = Mass [kg]
h = Buffer height
a = deceleration

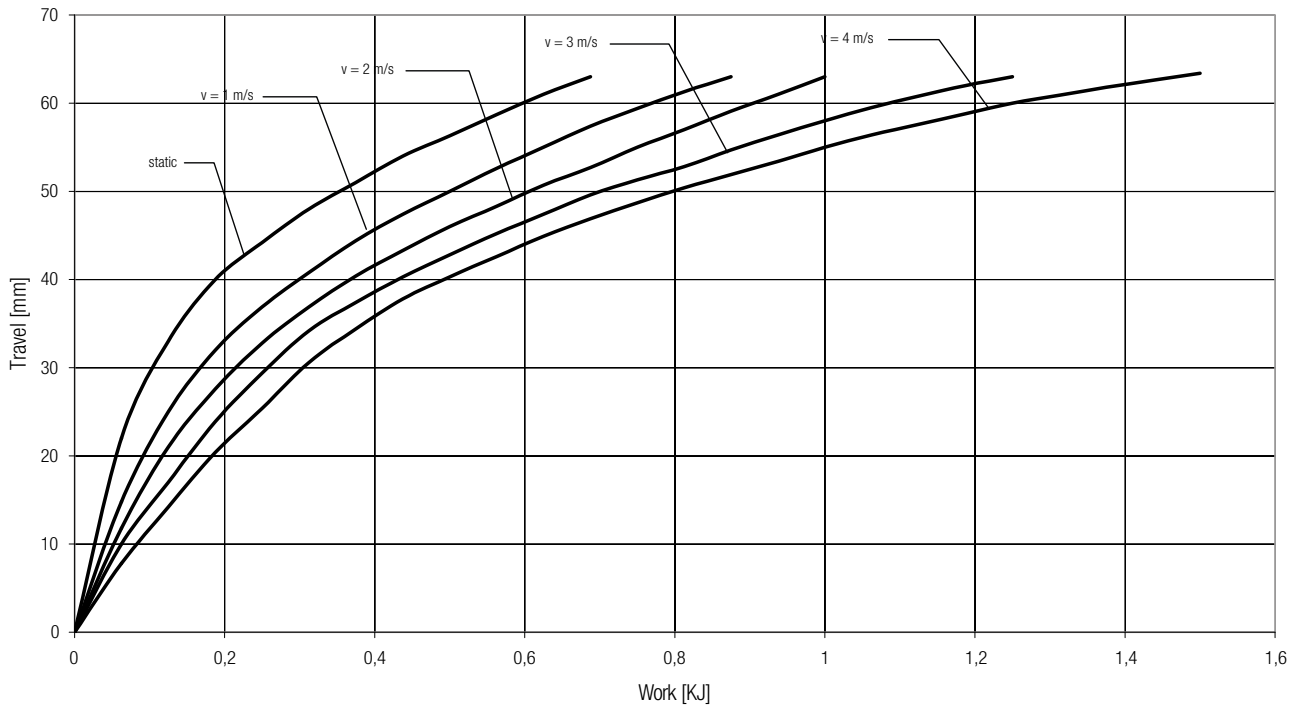
80 x 40 Energy Absorption



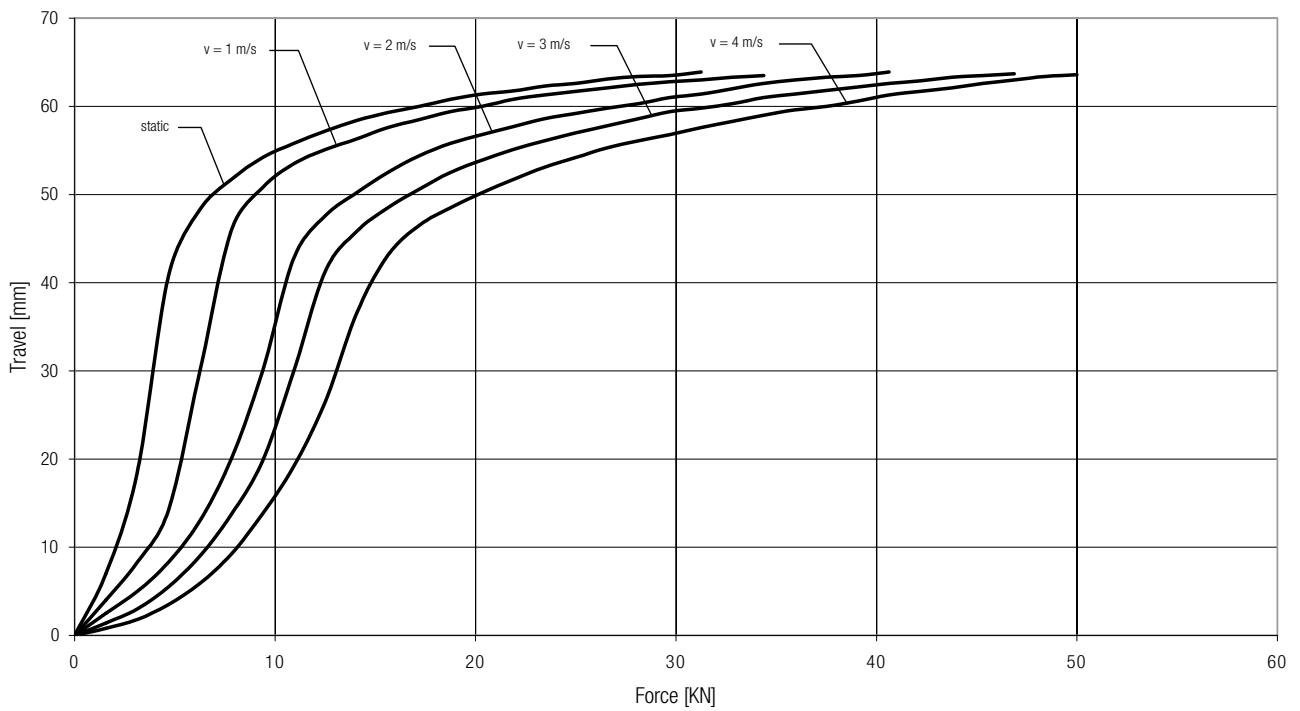
80 x 40 Final Load



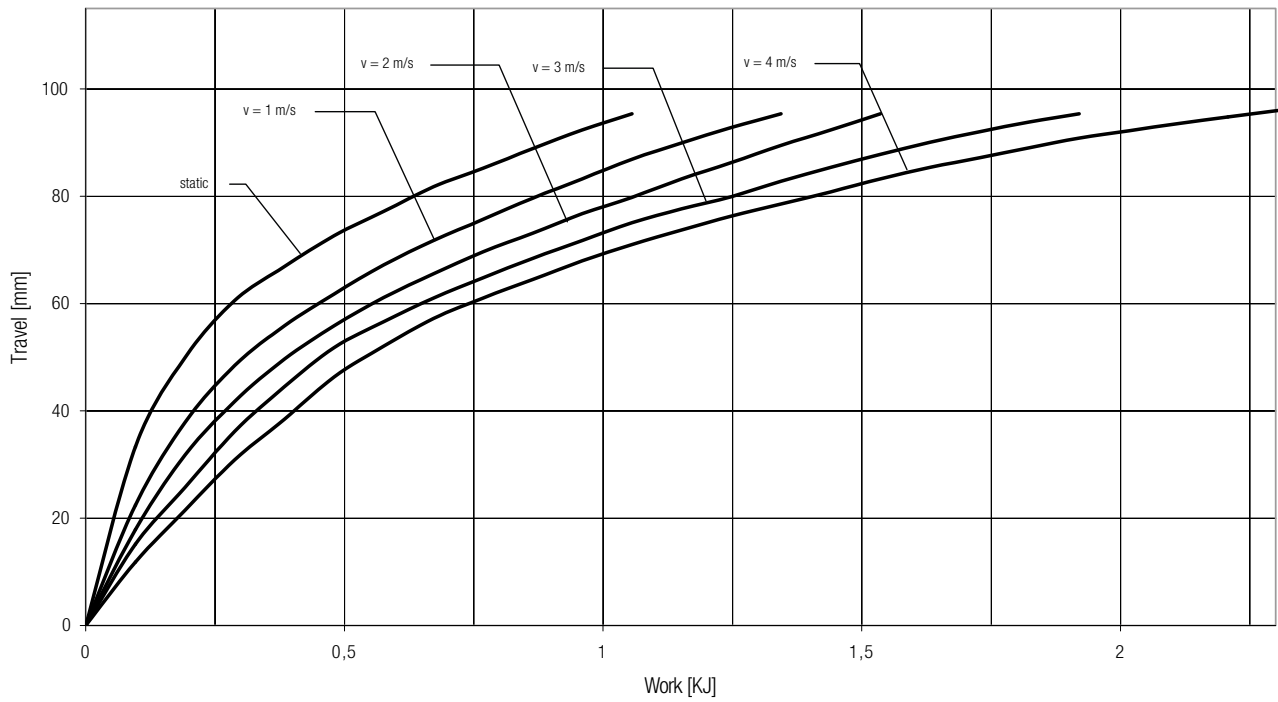
80 x 80 Energy Absorption



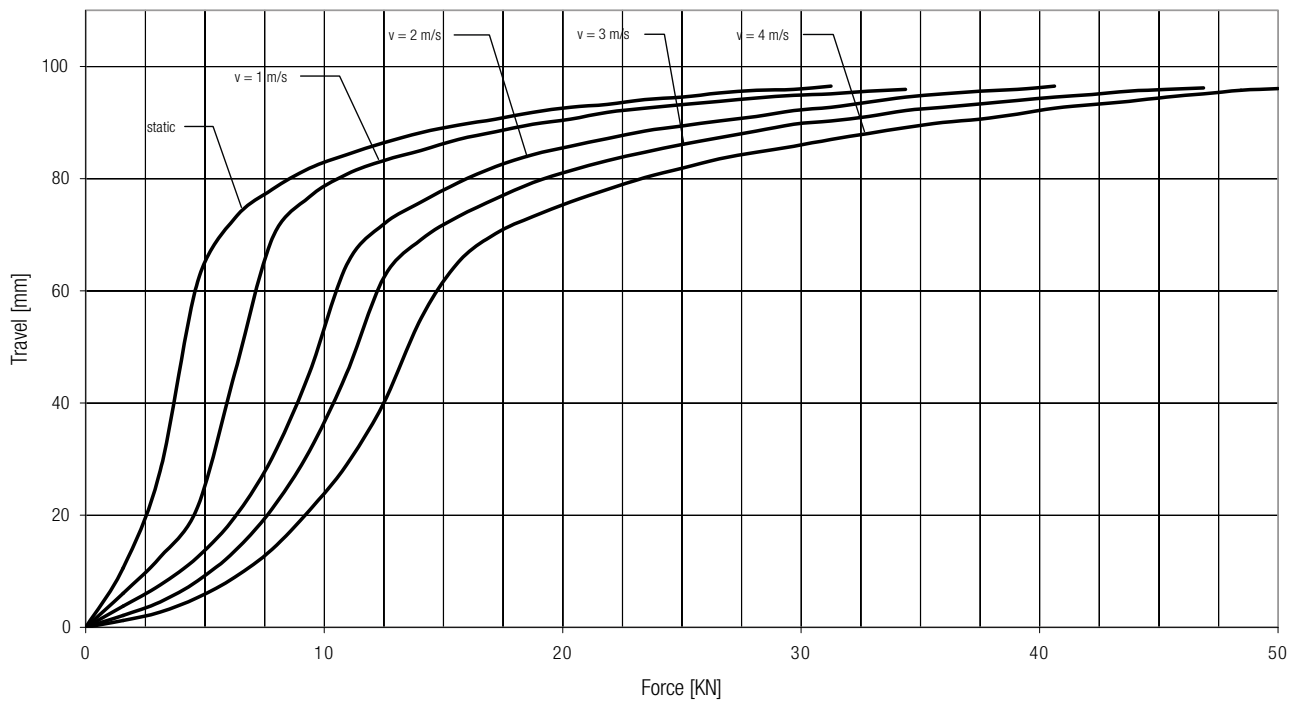
80 x 80 Final Load



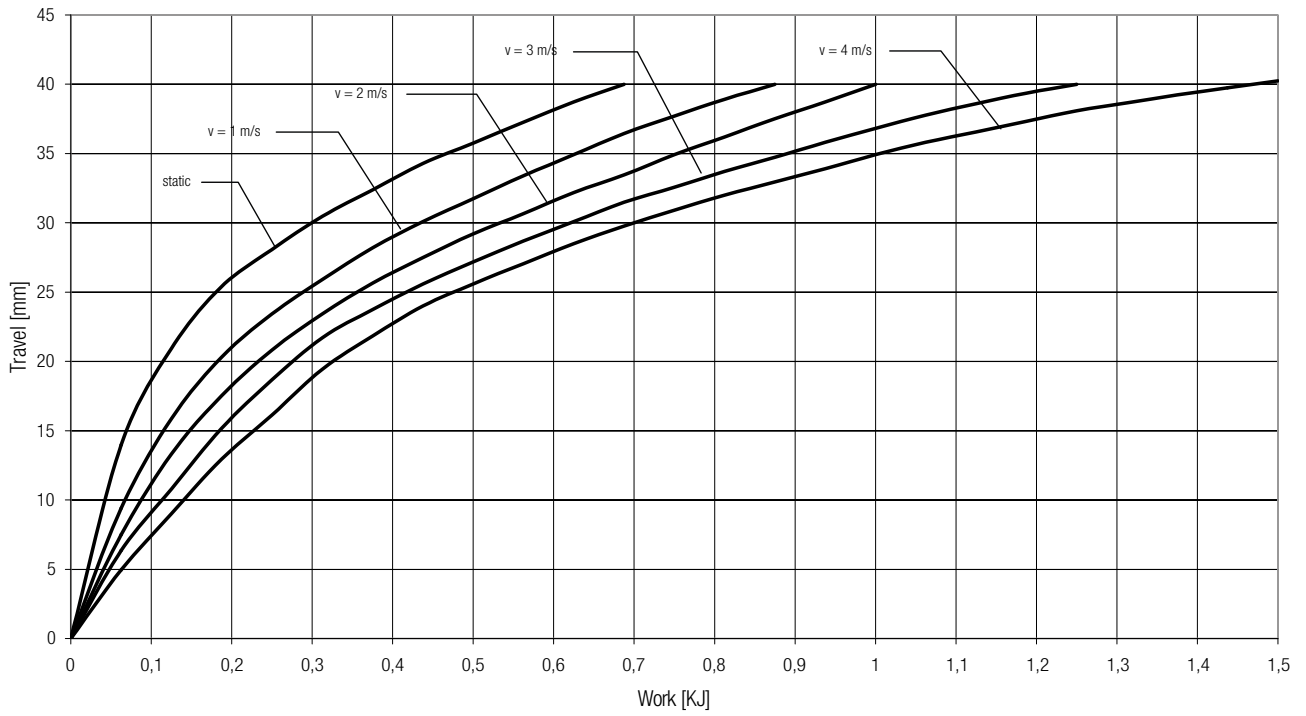
80 x 120 Energy Absorption



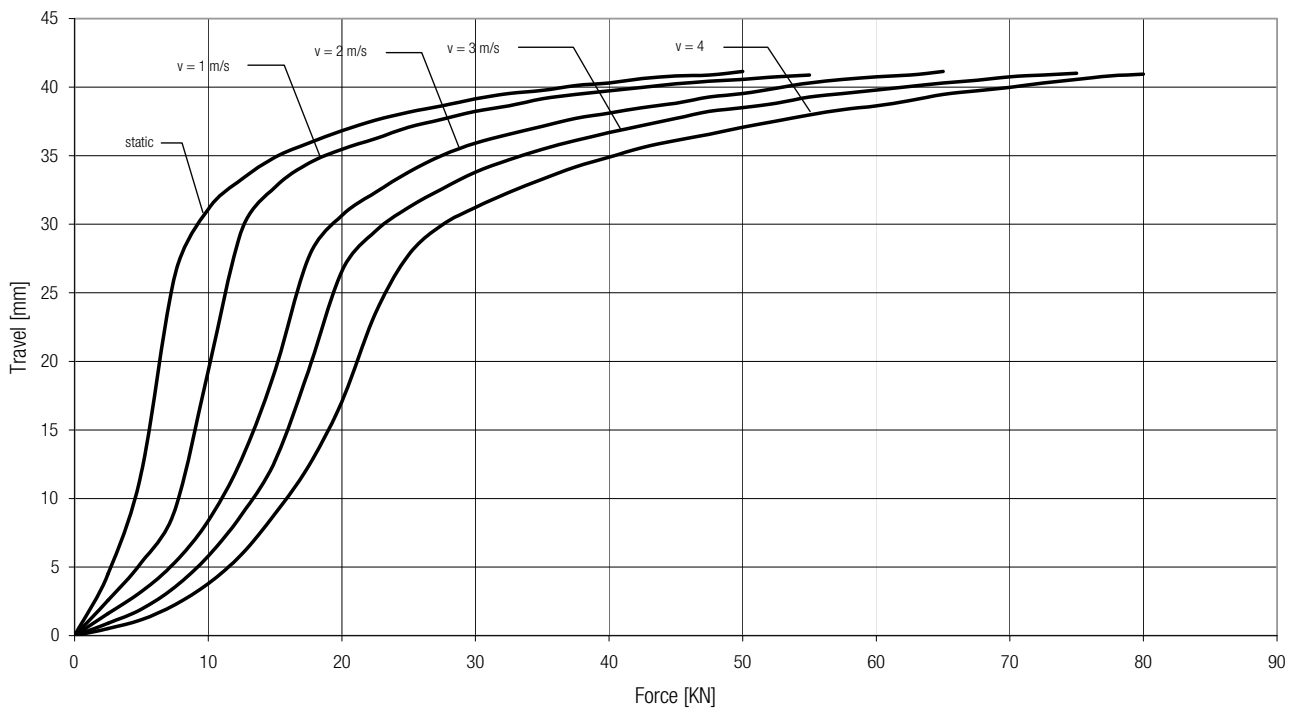
80 x 120 Final Load



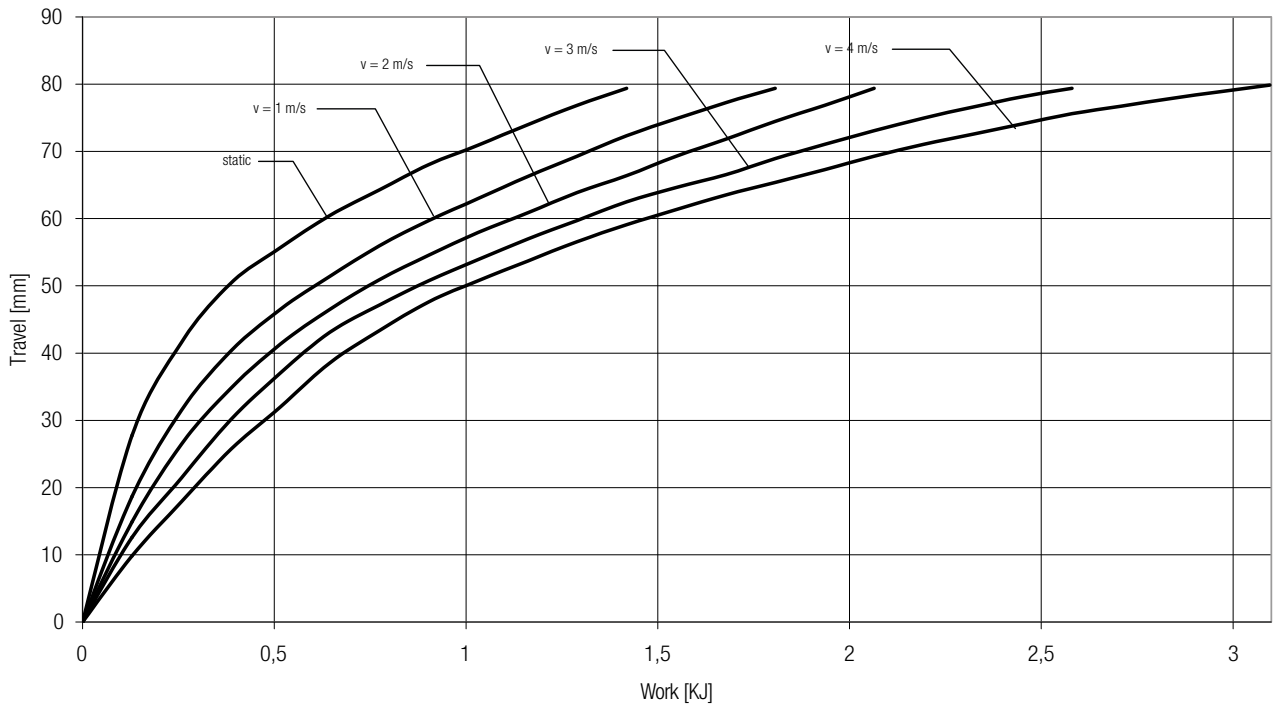
100 x 50 Energy Absorption



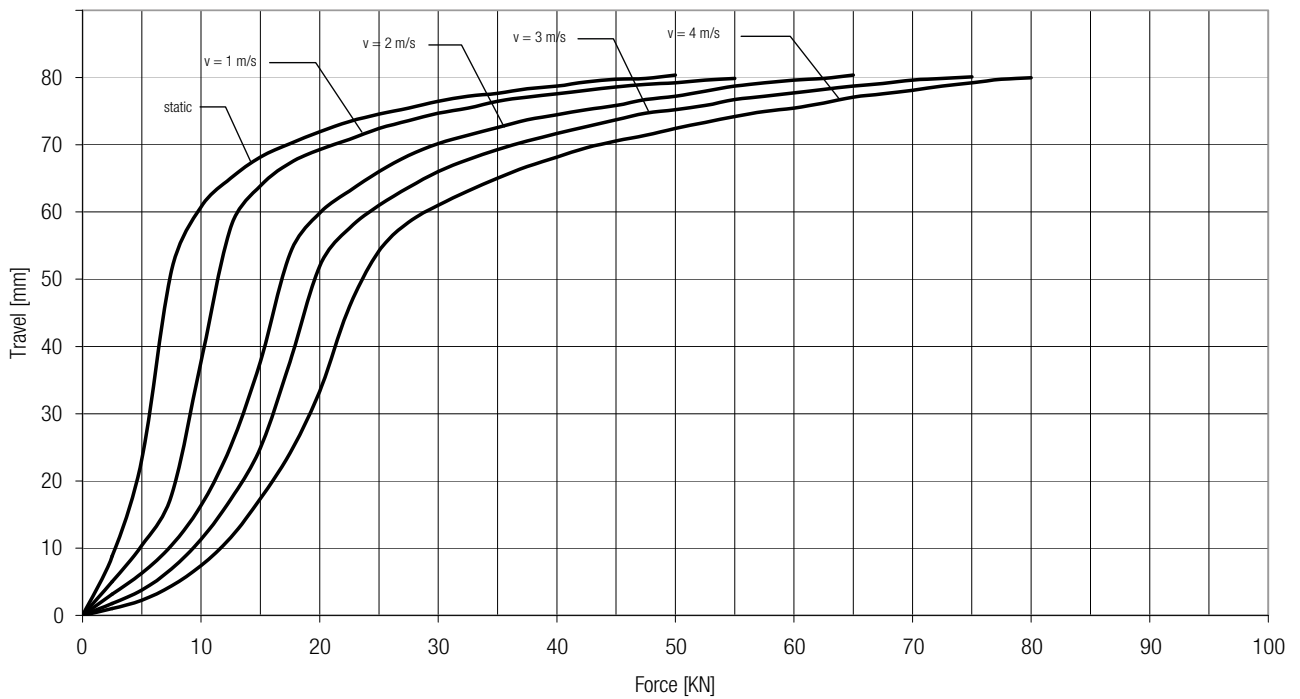
100 x 50 Final Load



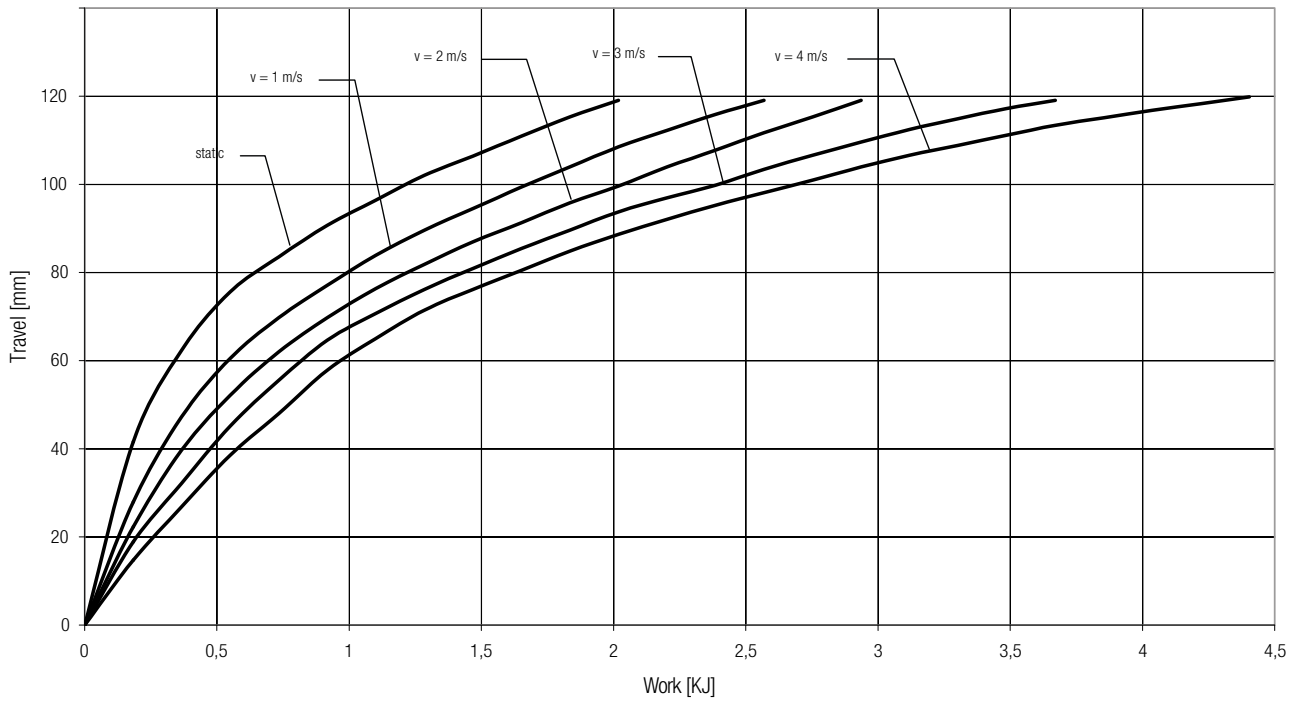
100 x 100 Energy Absorption



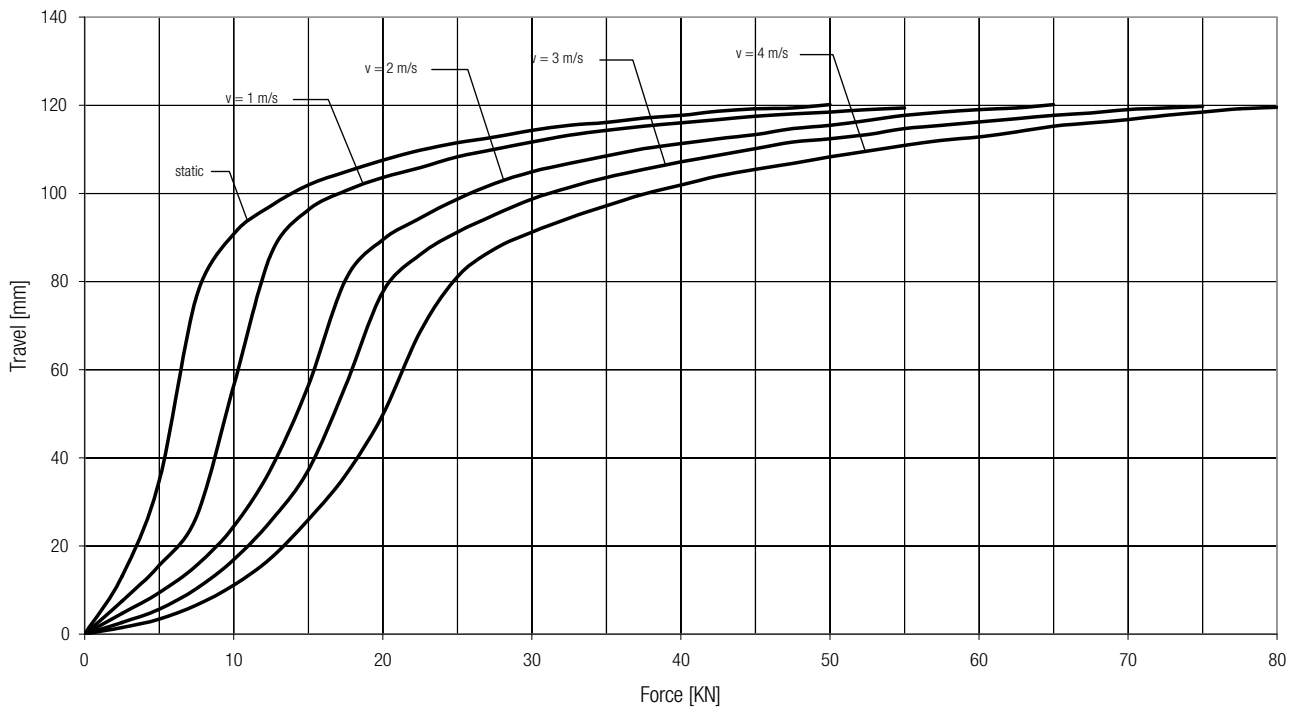
100 x 100 Final Load



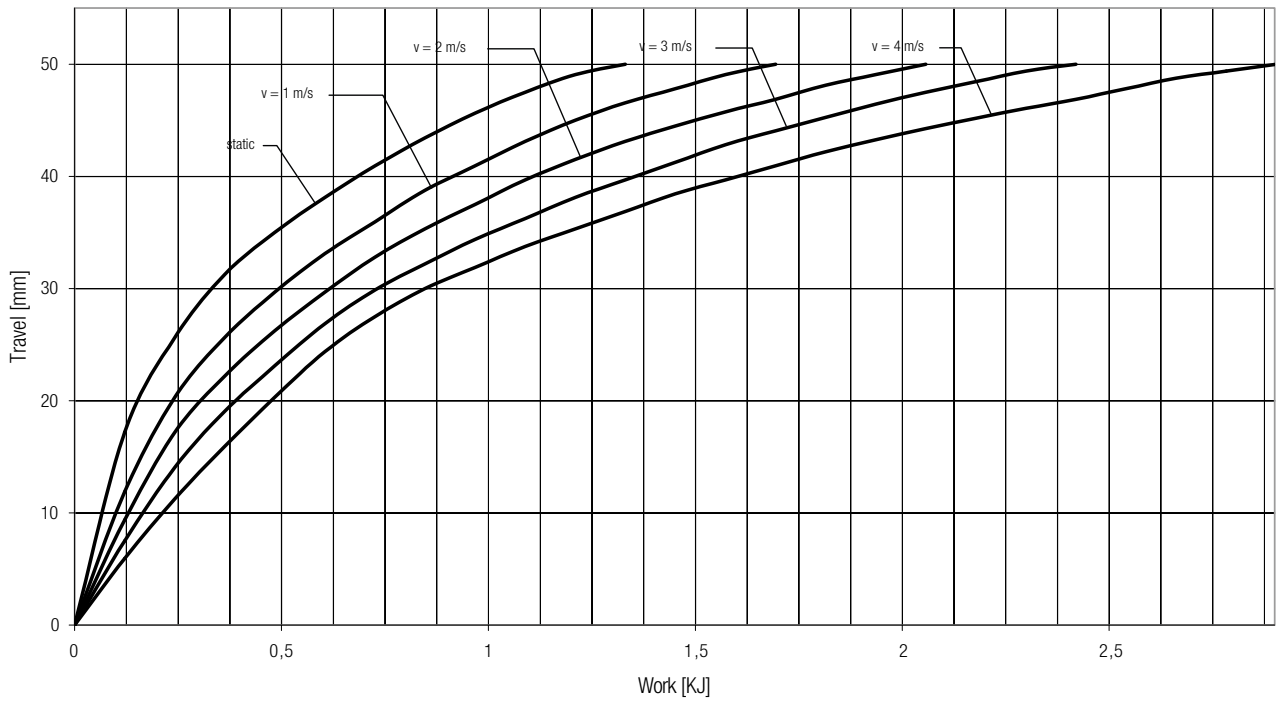
100 x 150 Energy Absorption



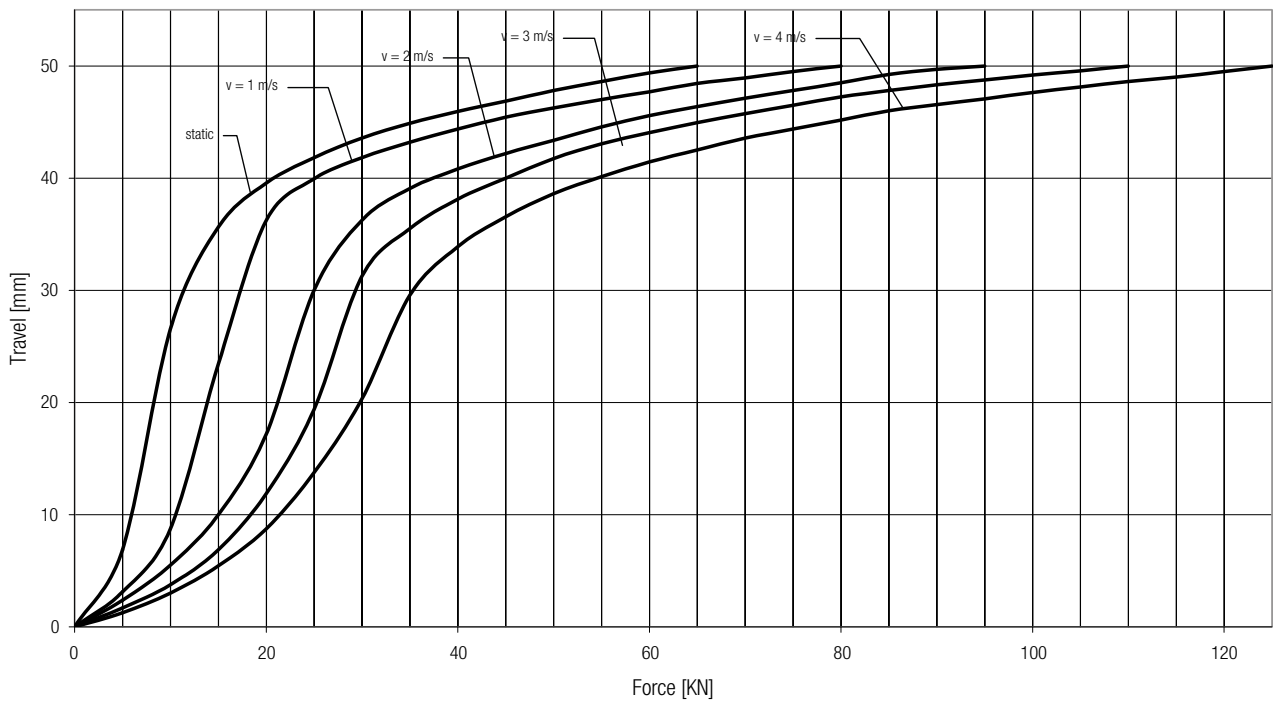
100 x 150 Final Load



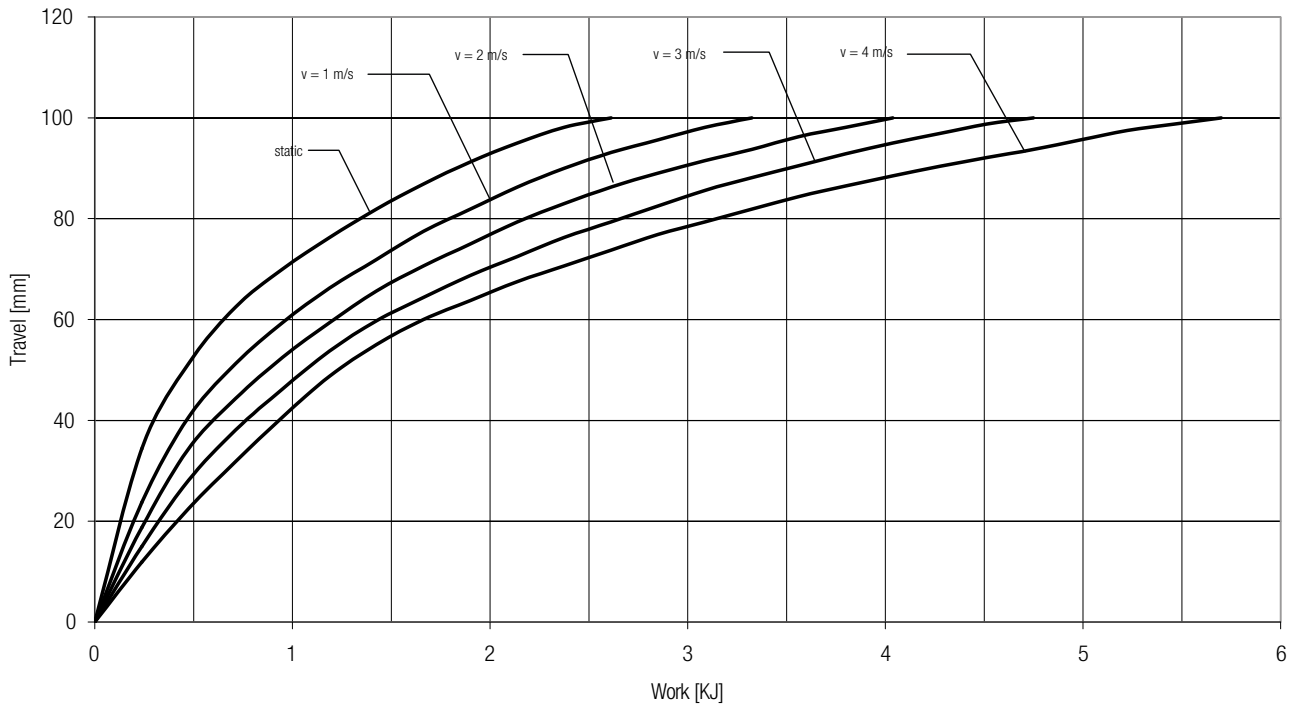
125 x 63 Energy Absorption



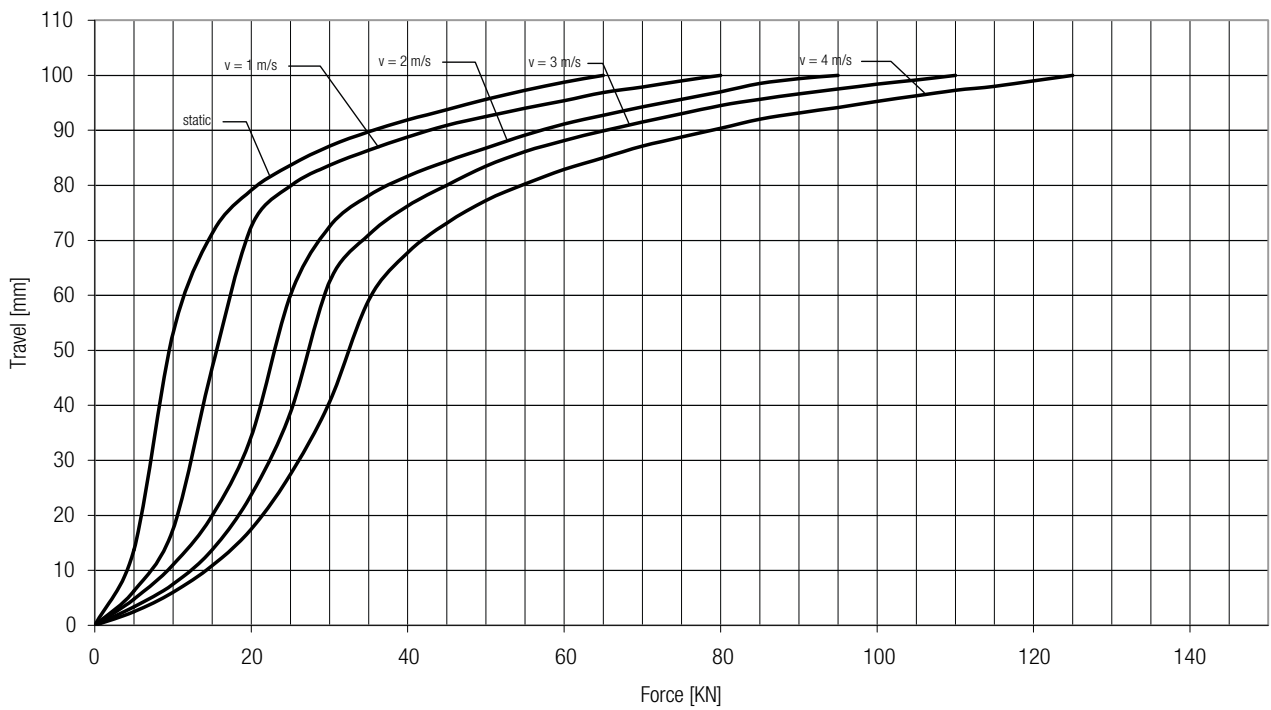
125 x 63 Final Load



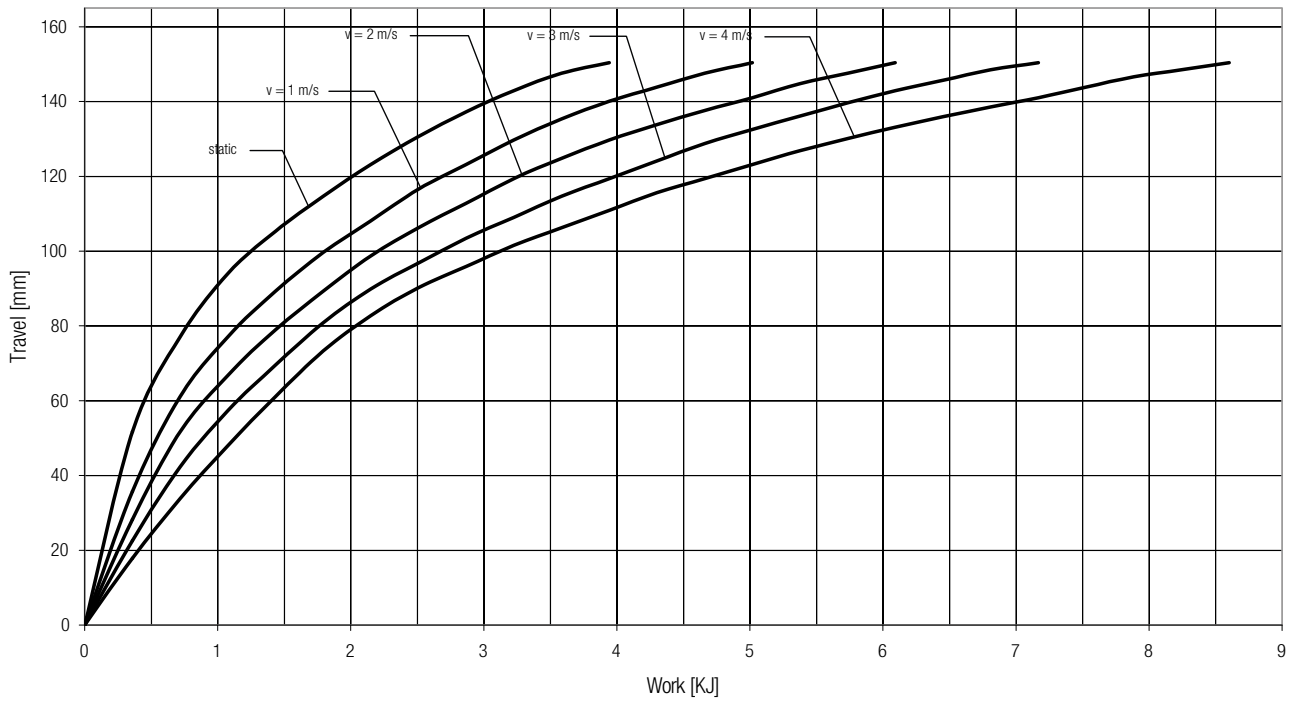
125 x 125 Energy Absorption



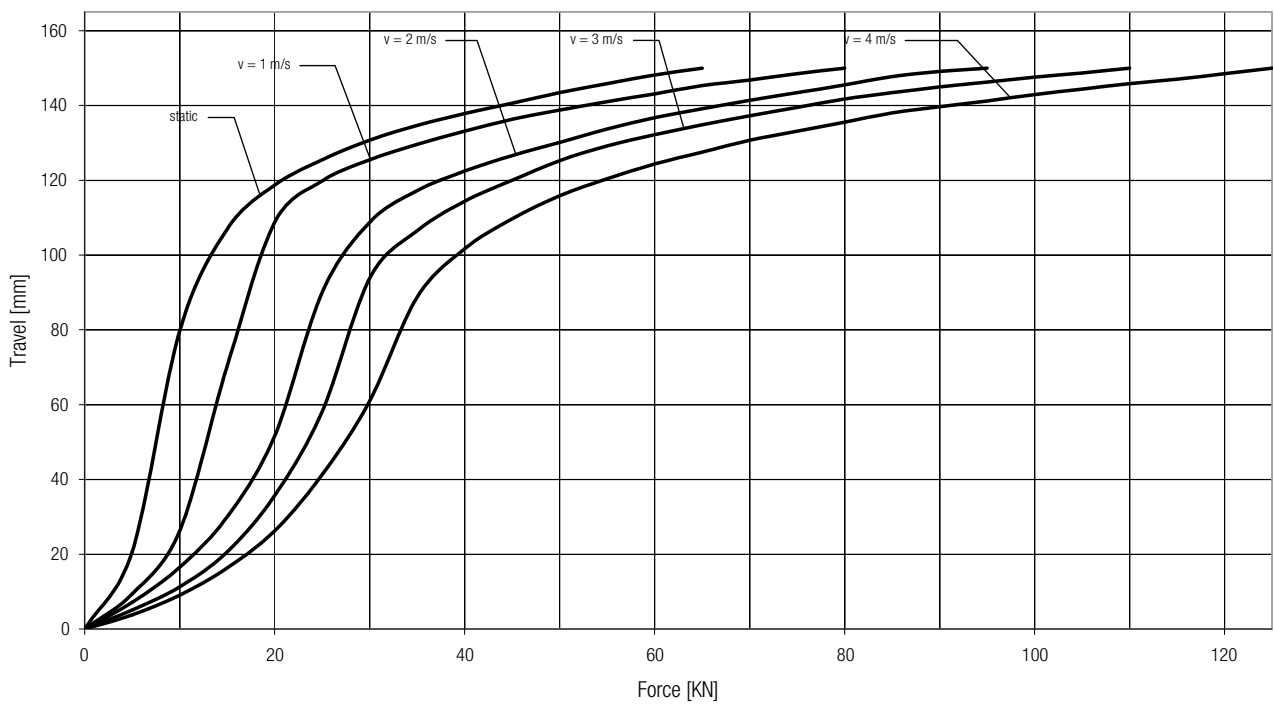
125 x 125 Final Load



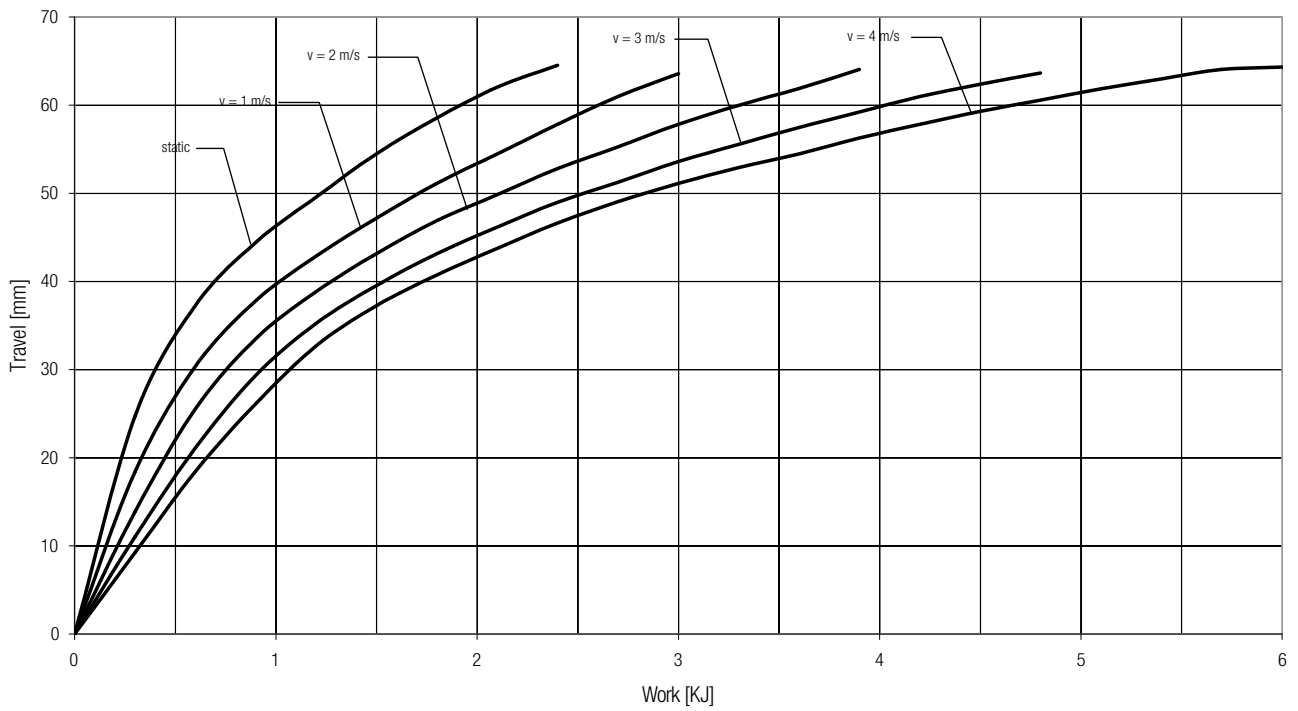
125 x 188 Energy Absorption



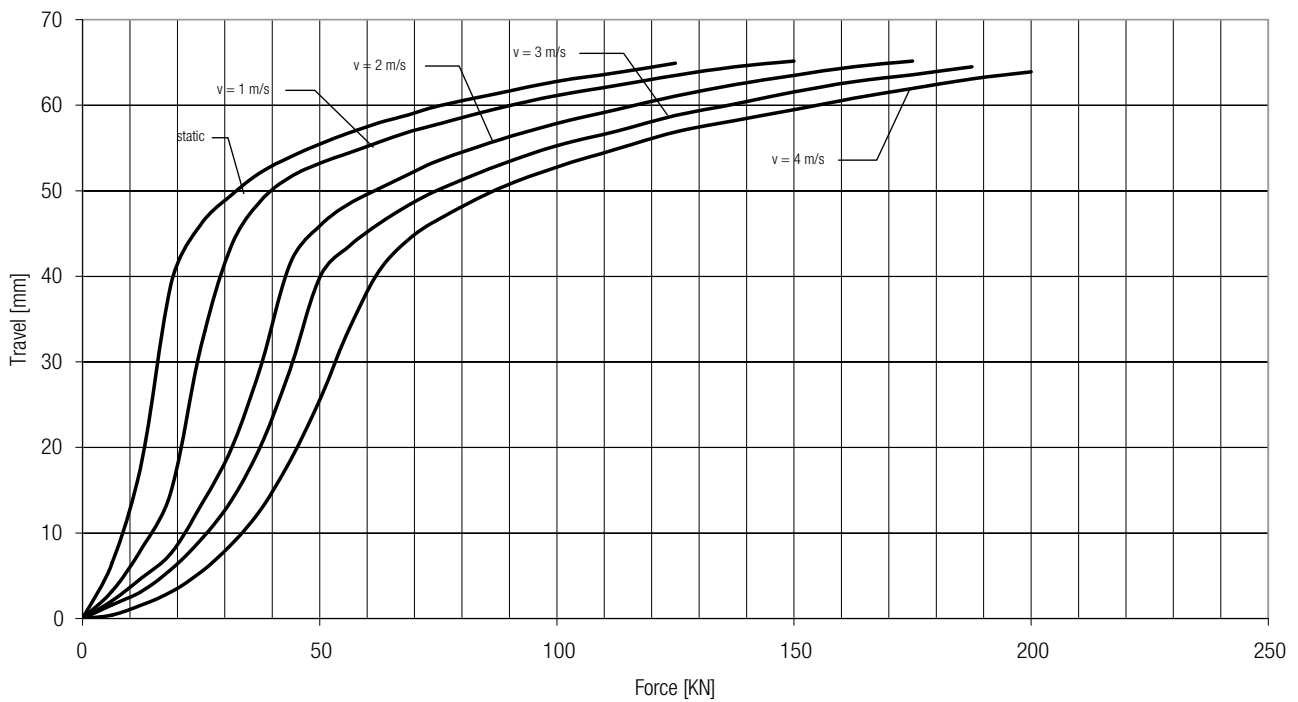
125 x 188 Final Load



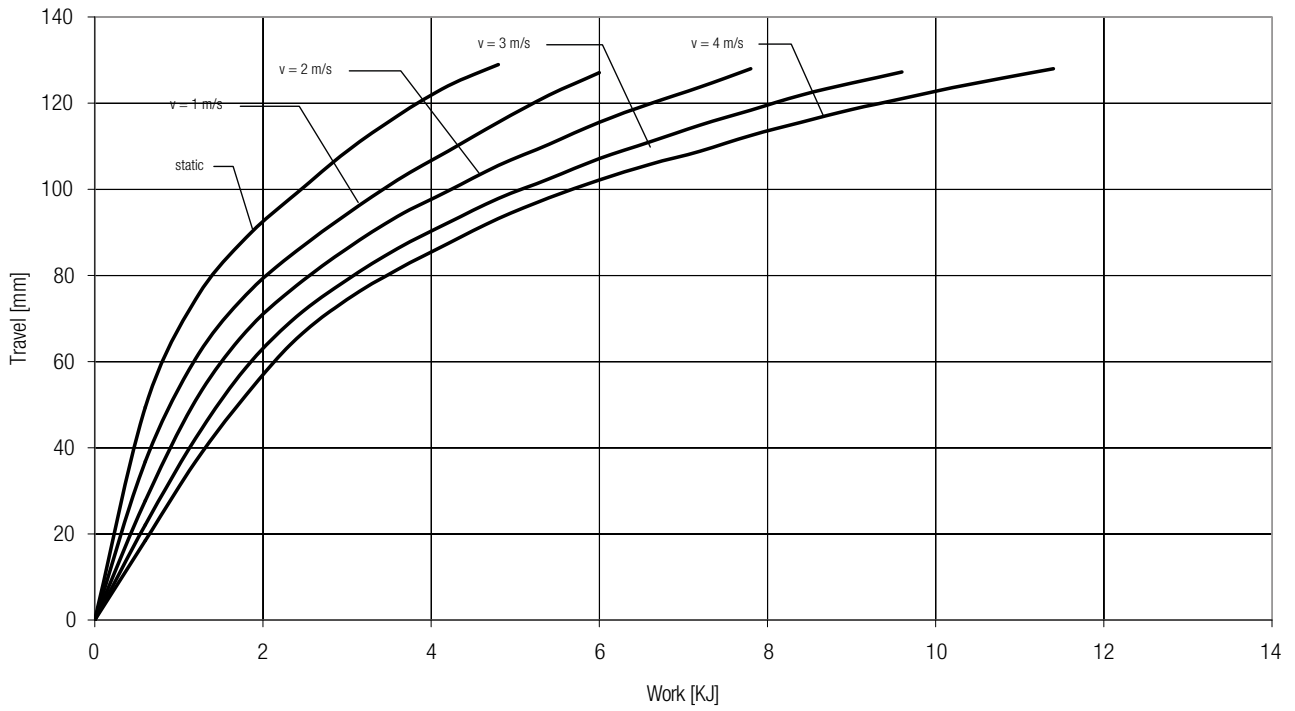
160 x 80 Energy Absorption



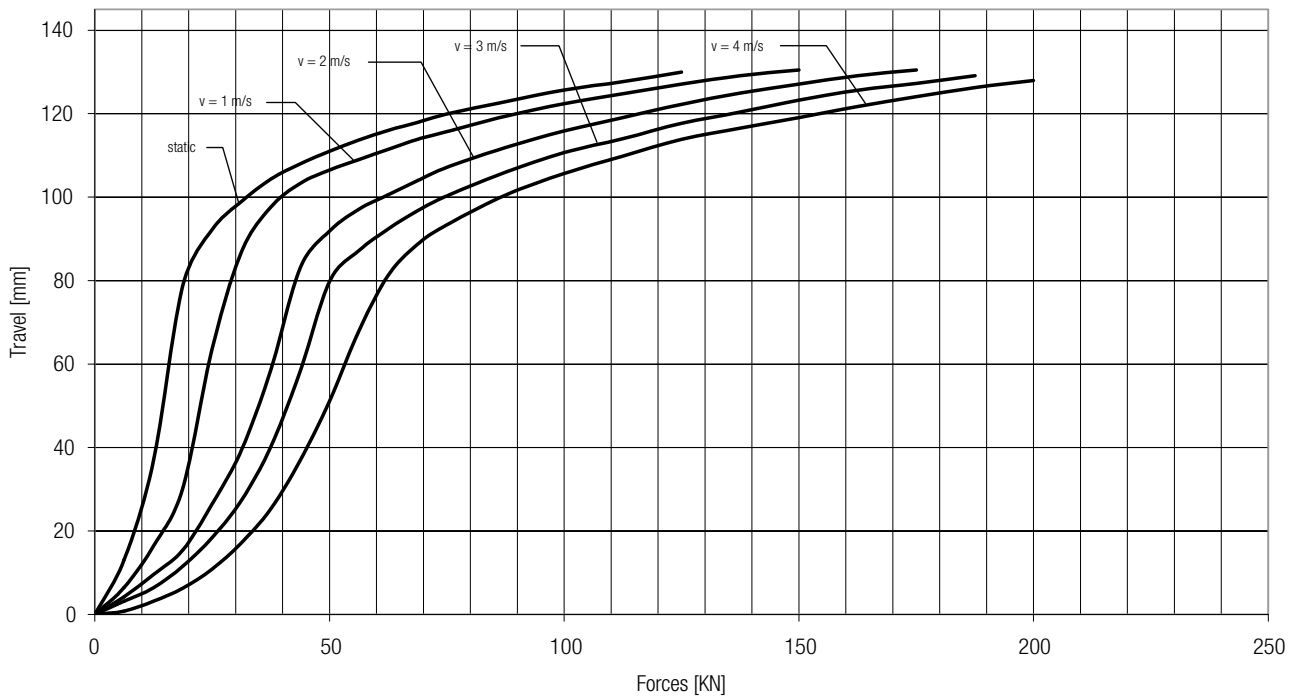
160 x 80 Final Load



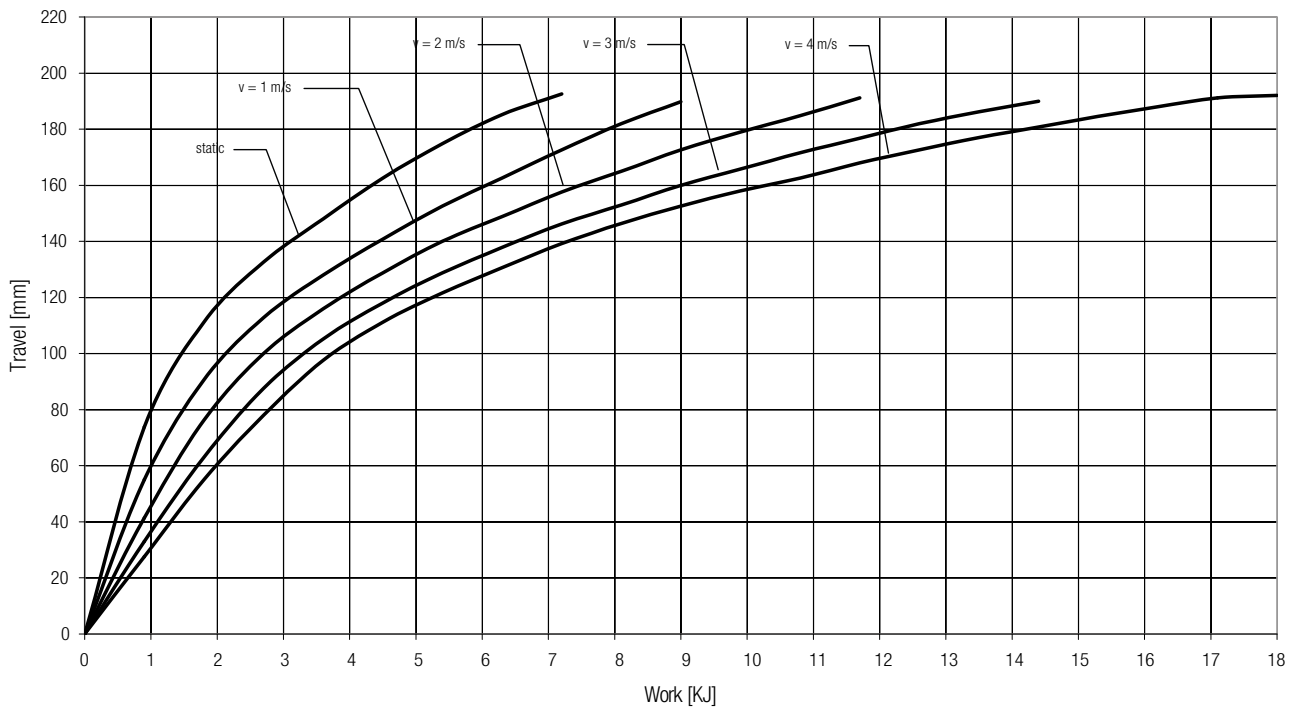
160 x 160 Energy Absorption



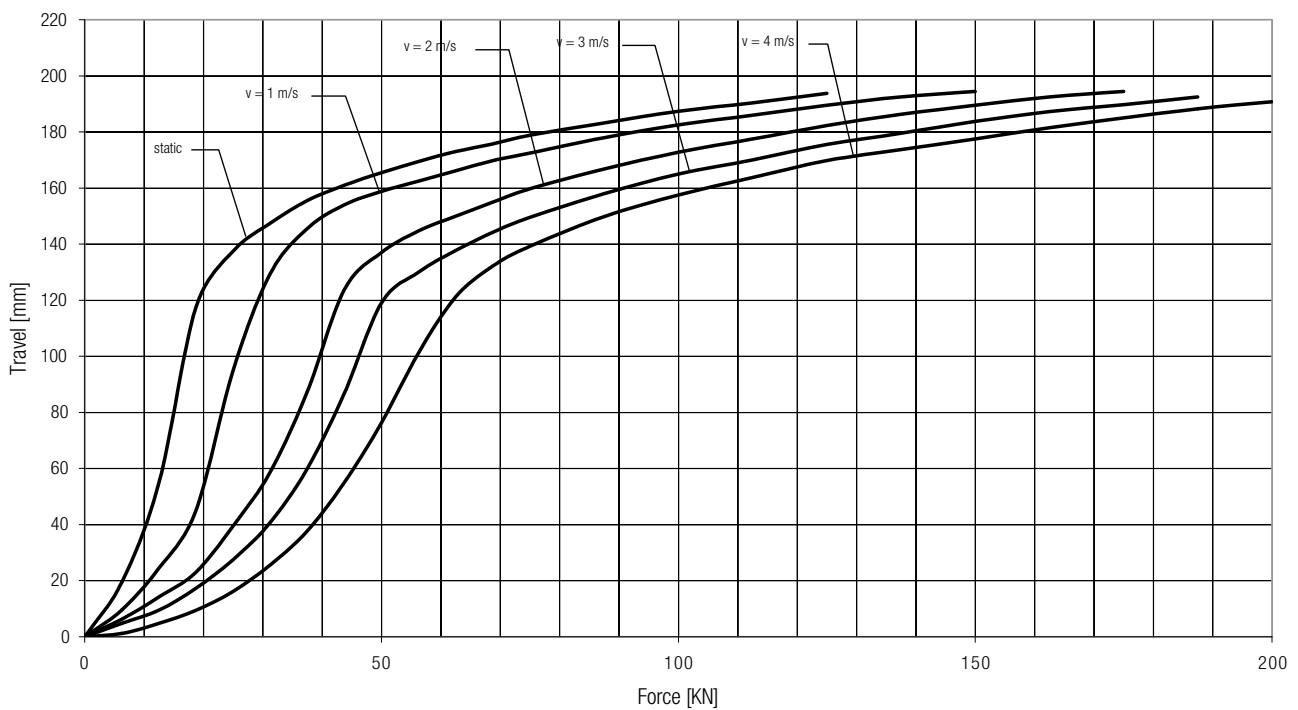
160 x 160 Final Load



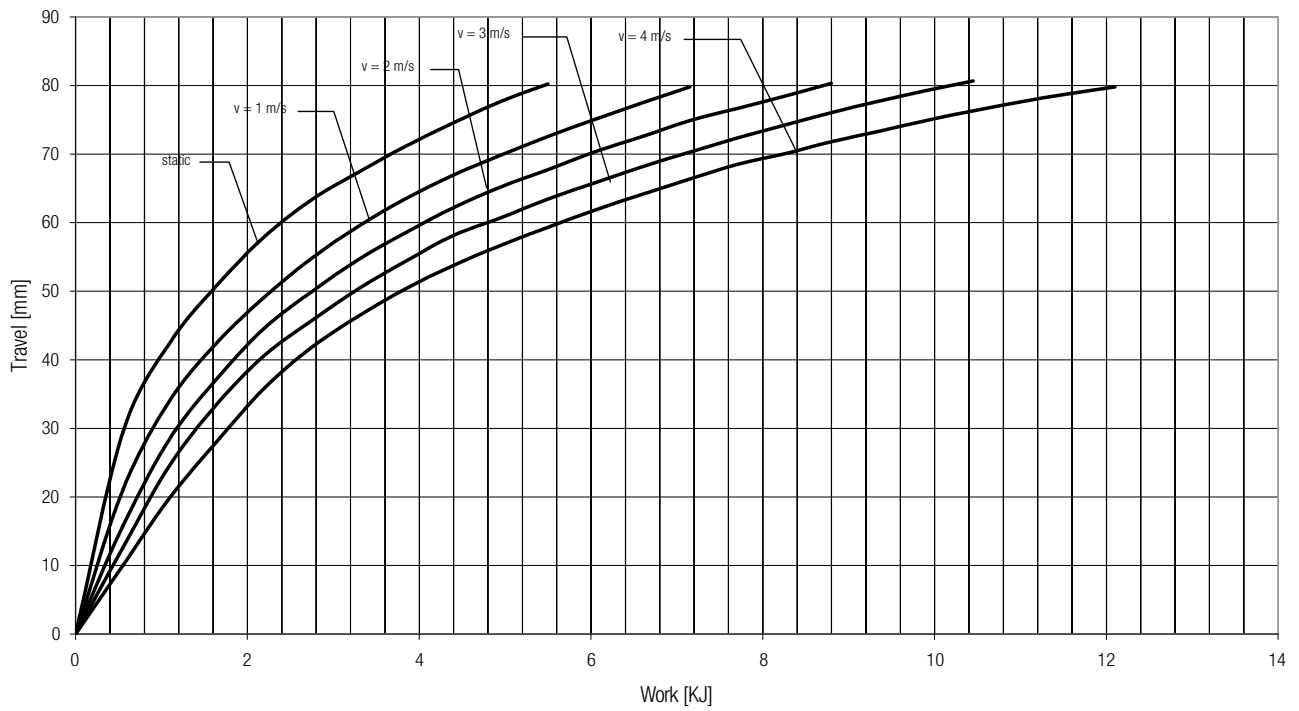
160 x 240 Energy Absorption



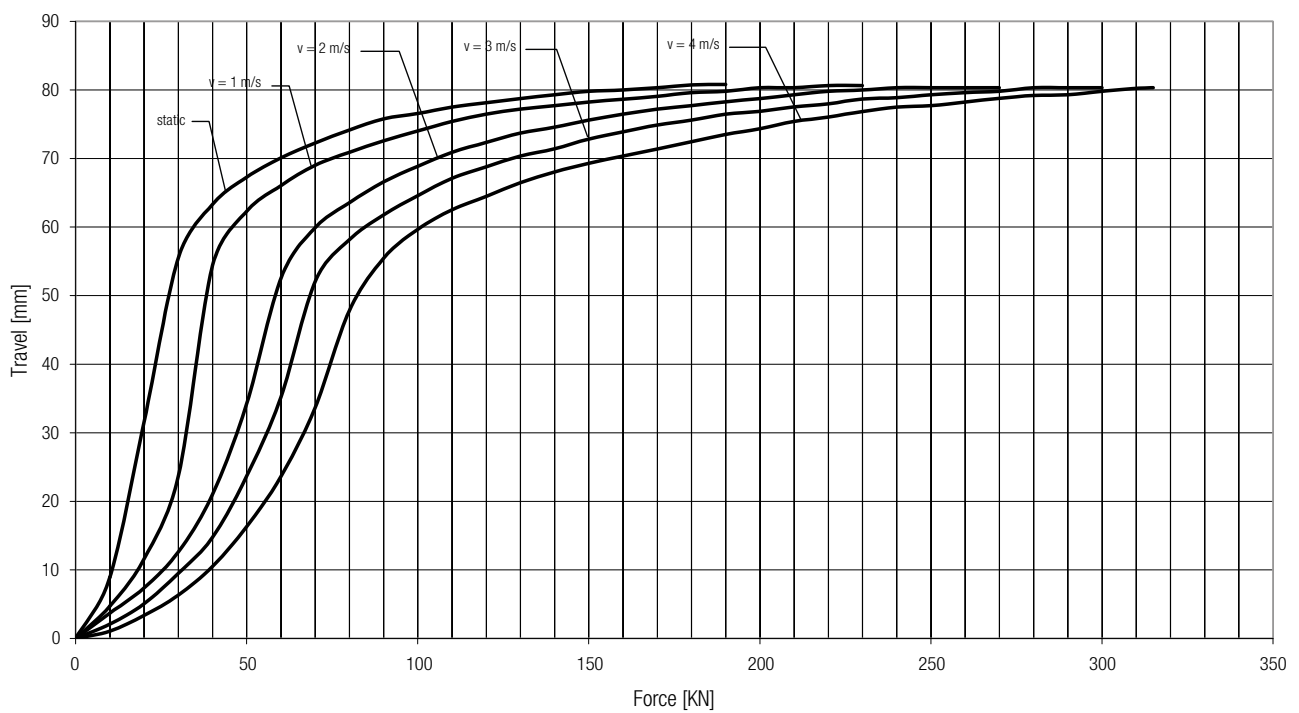
160 x 240 Final Load



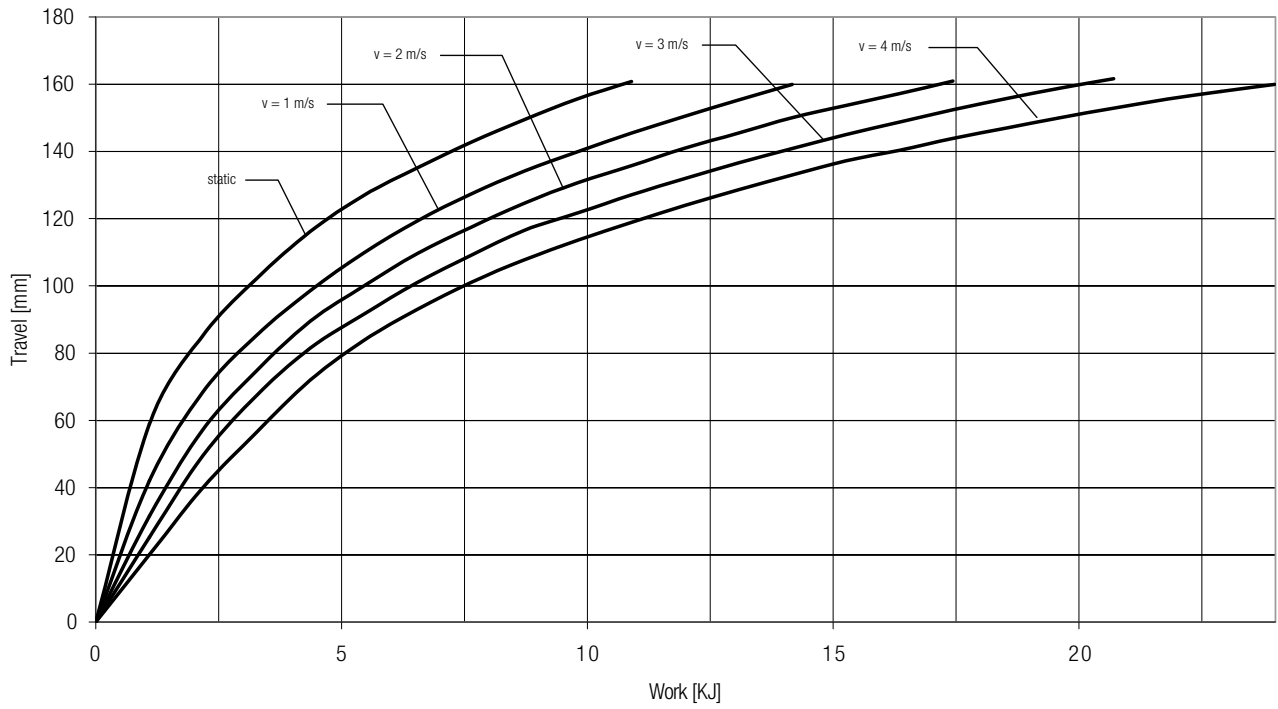
200 x 100 Energy Absorption



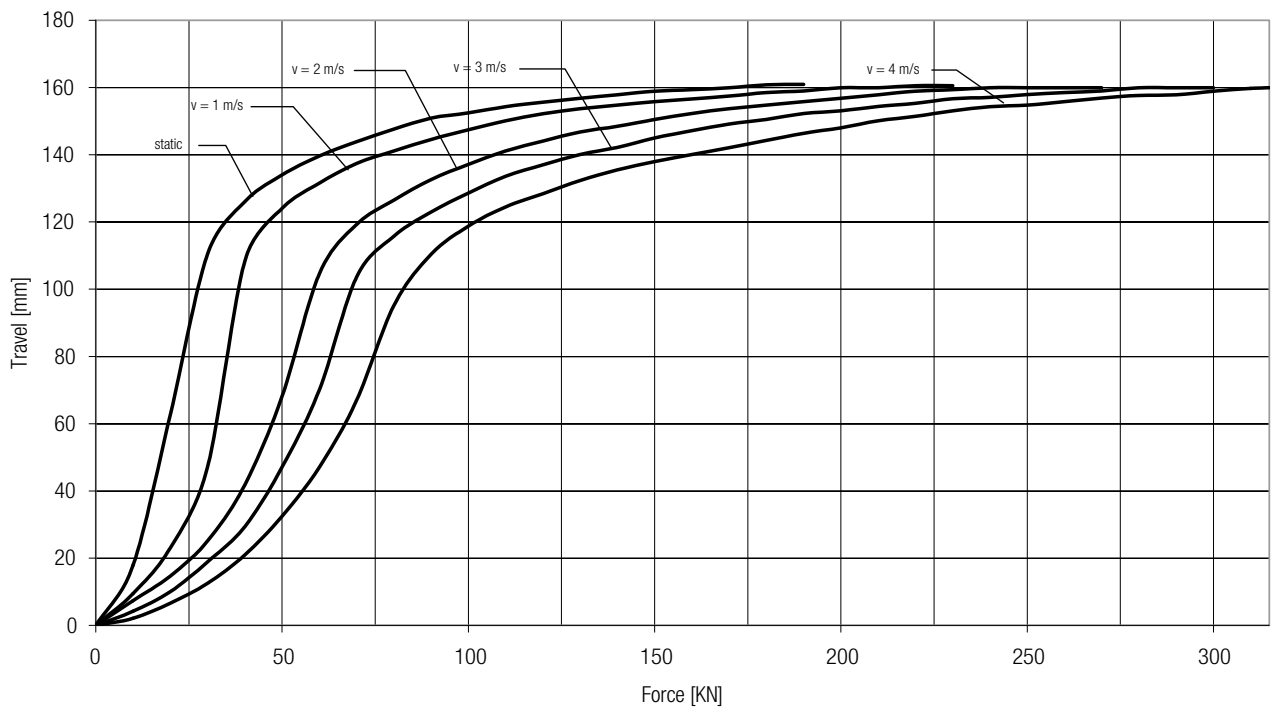
200 x 100 Final Load



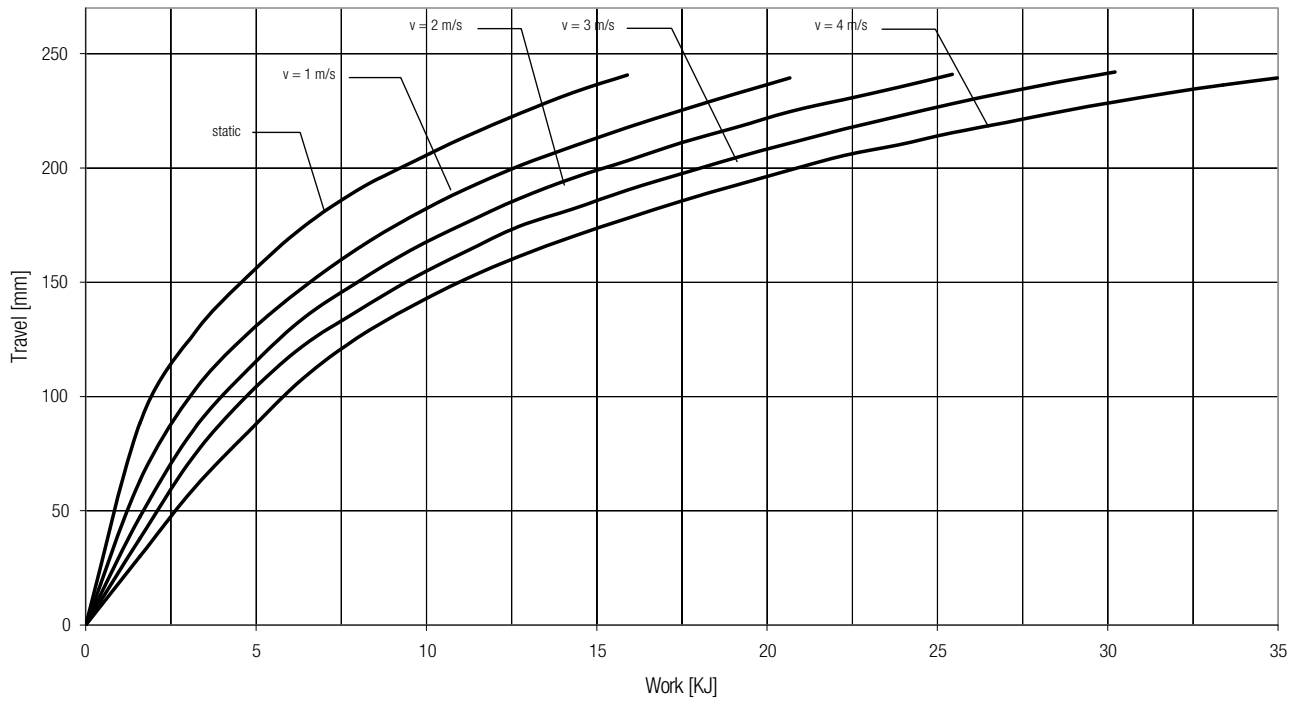
200 x 200 Energy Absorption



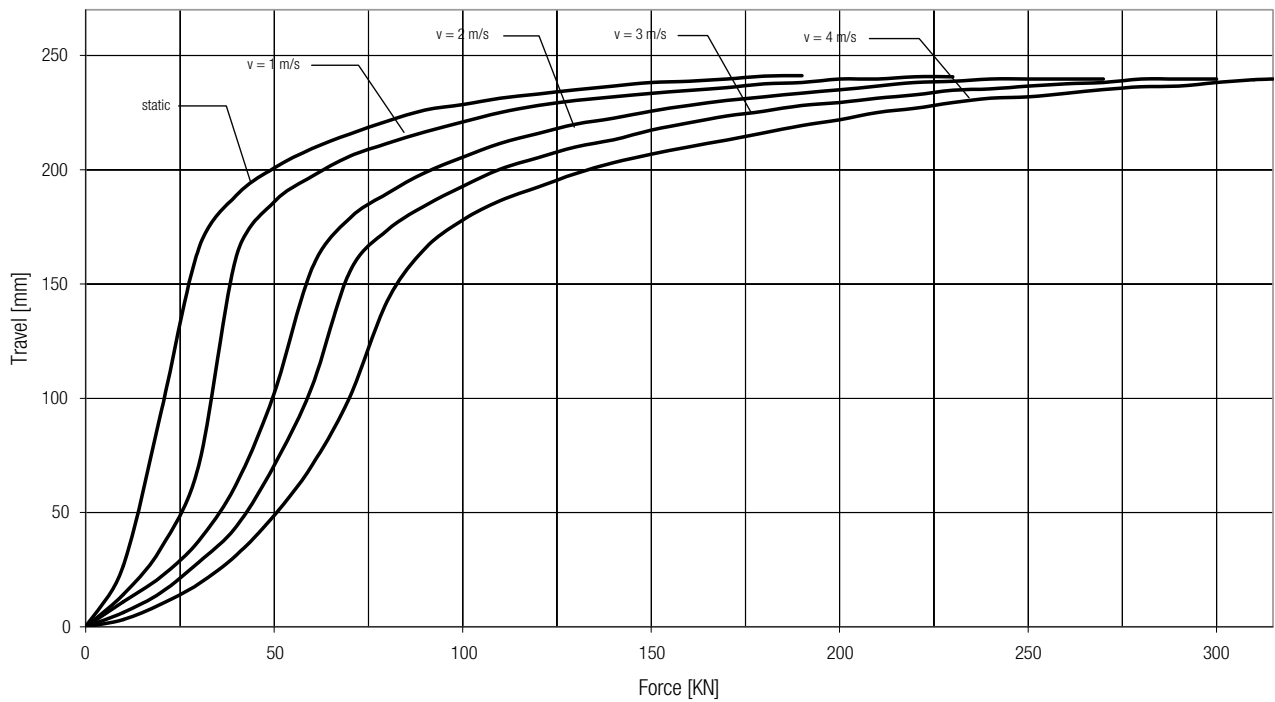
200 x 200 Final Load



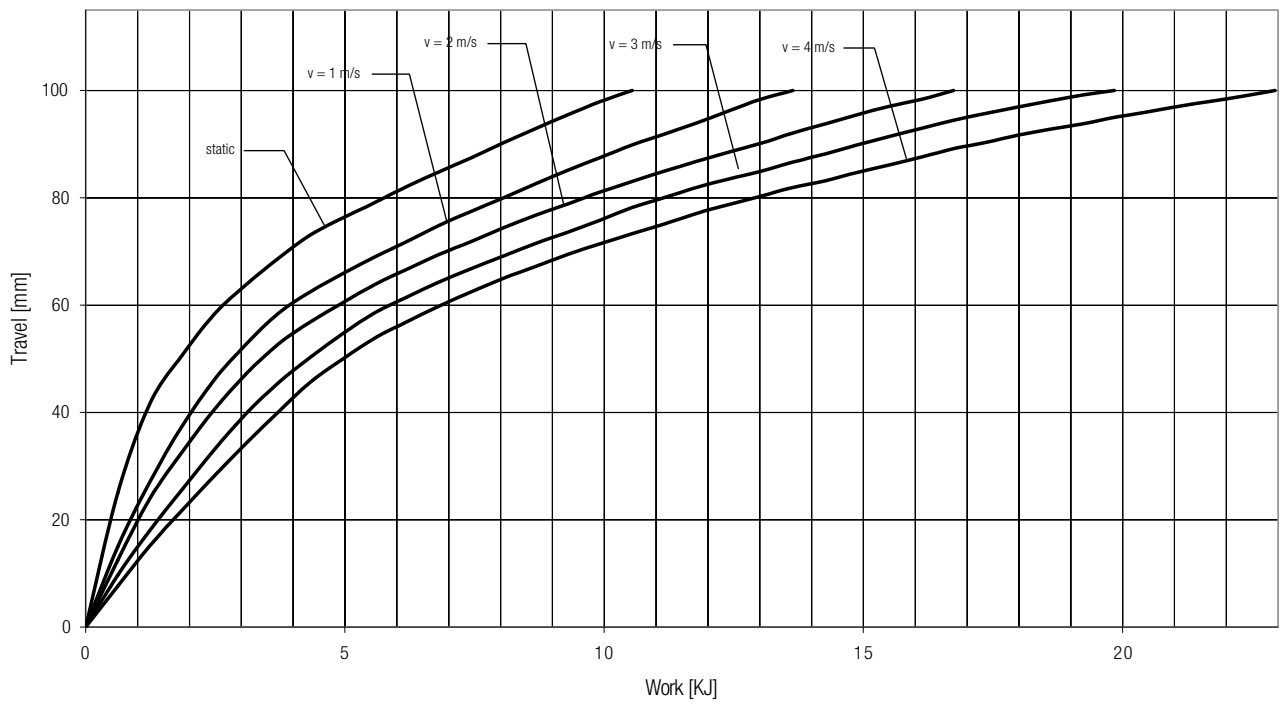
200 x 300 Energy Absorption



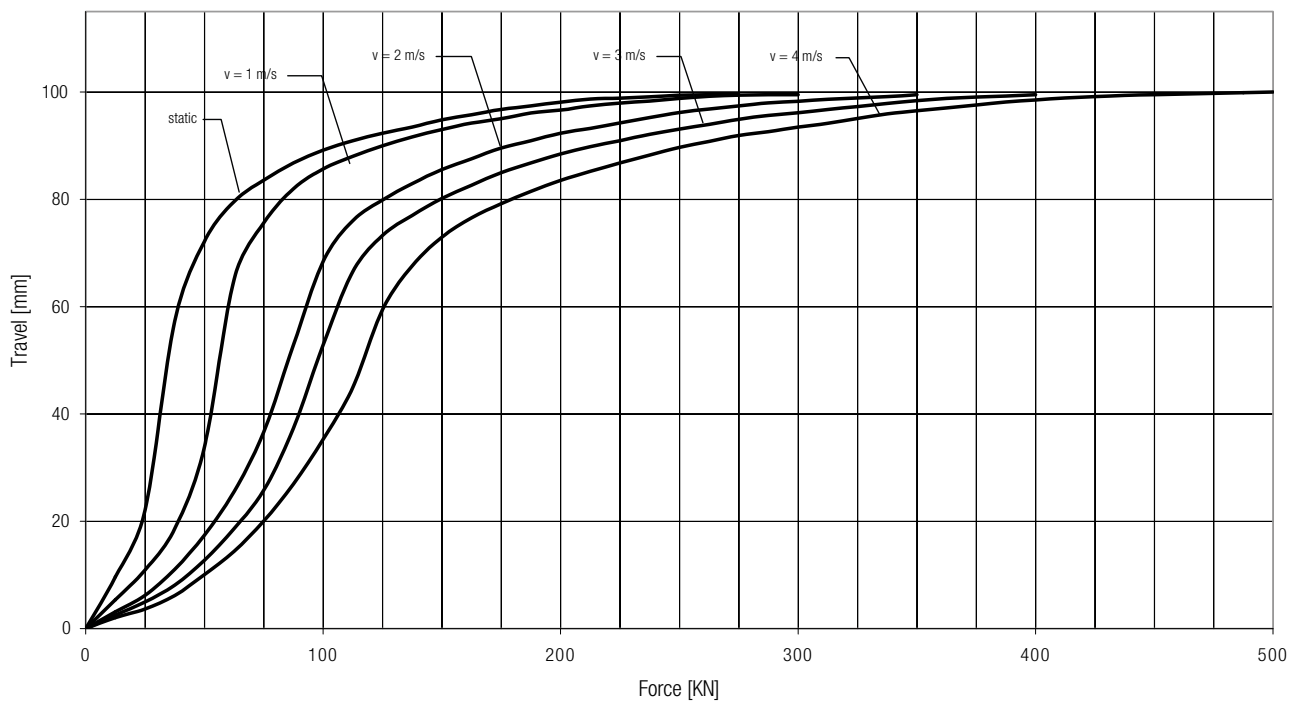
200 x 300 Final Load



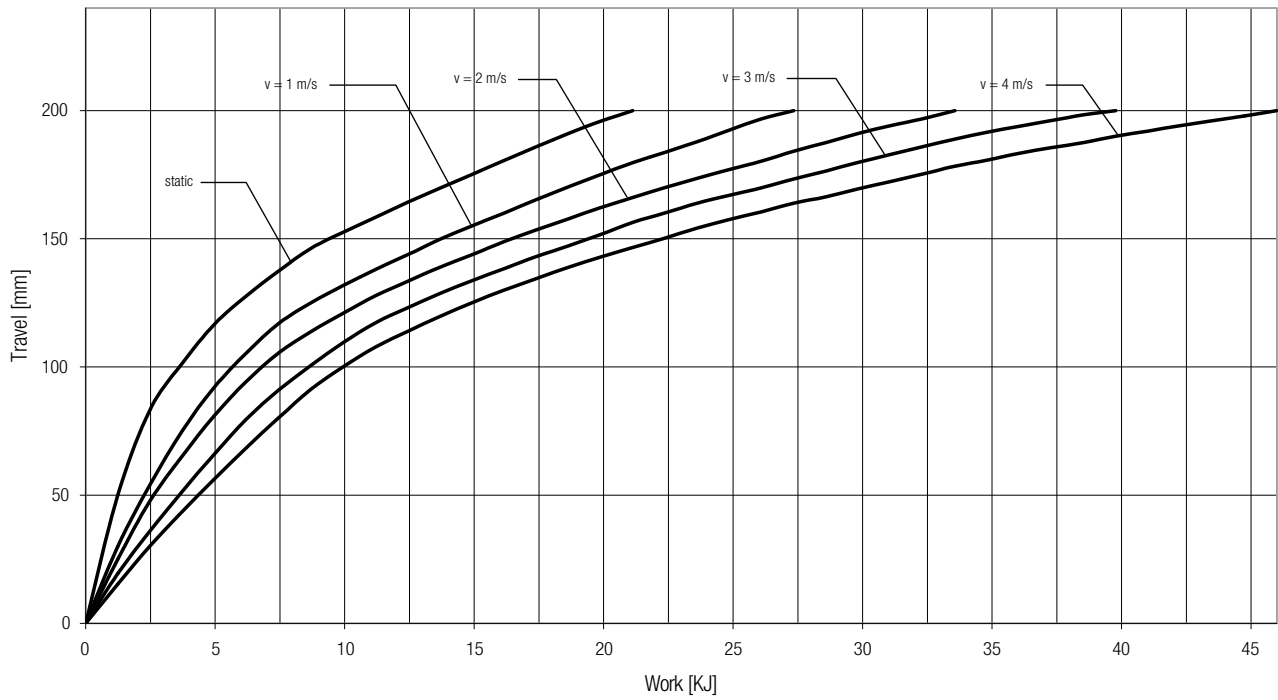
250 x 125 Energy Absorption



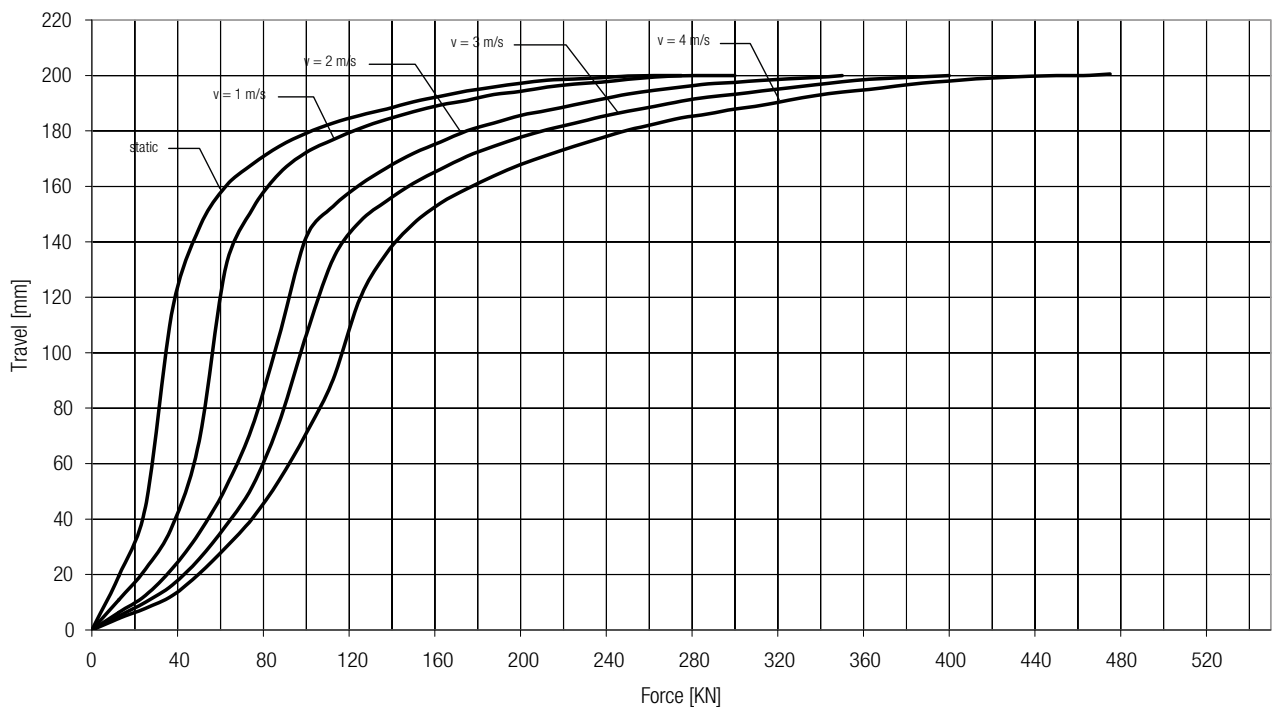
250 x 125 Final Load



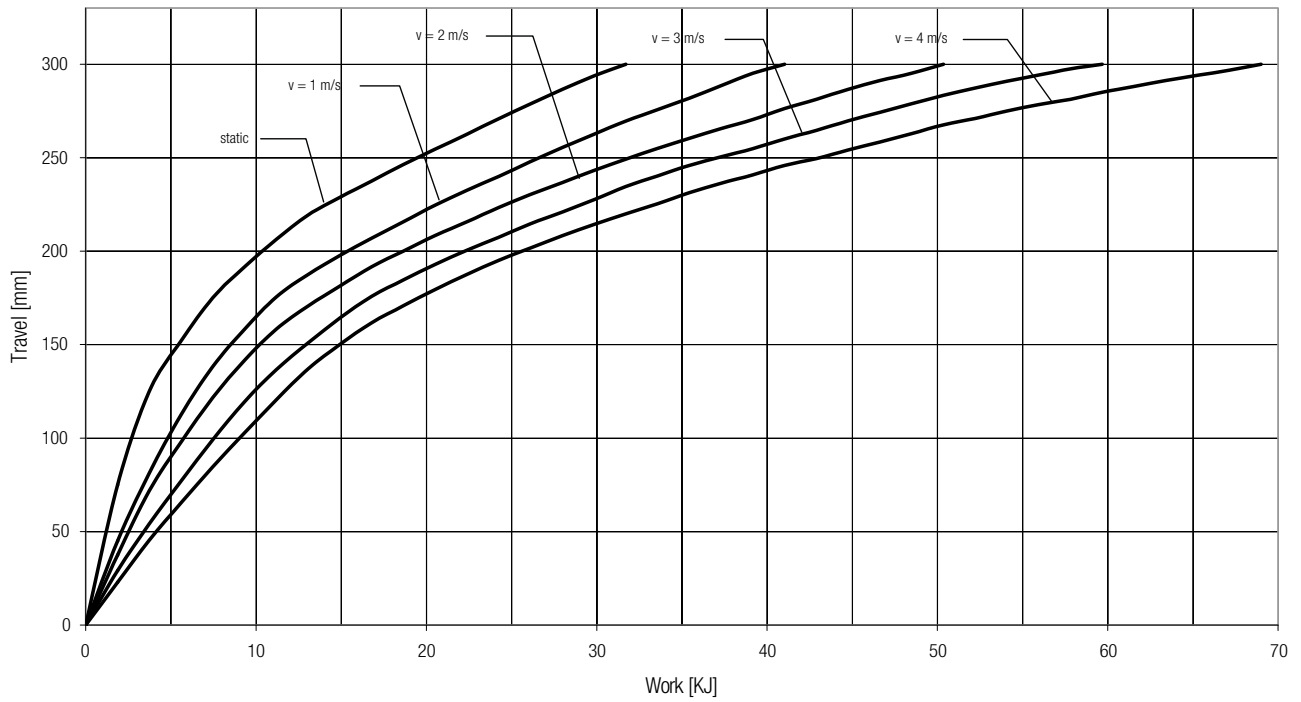
250 x 250 Energy Absorption



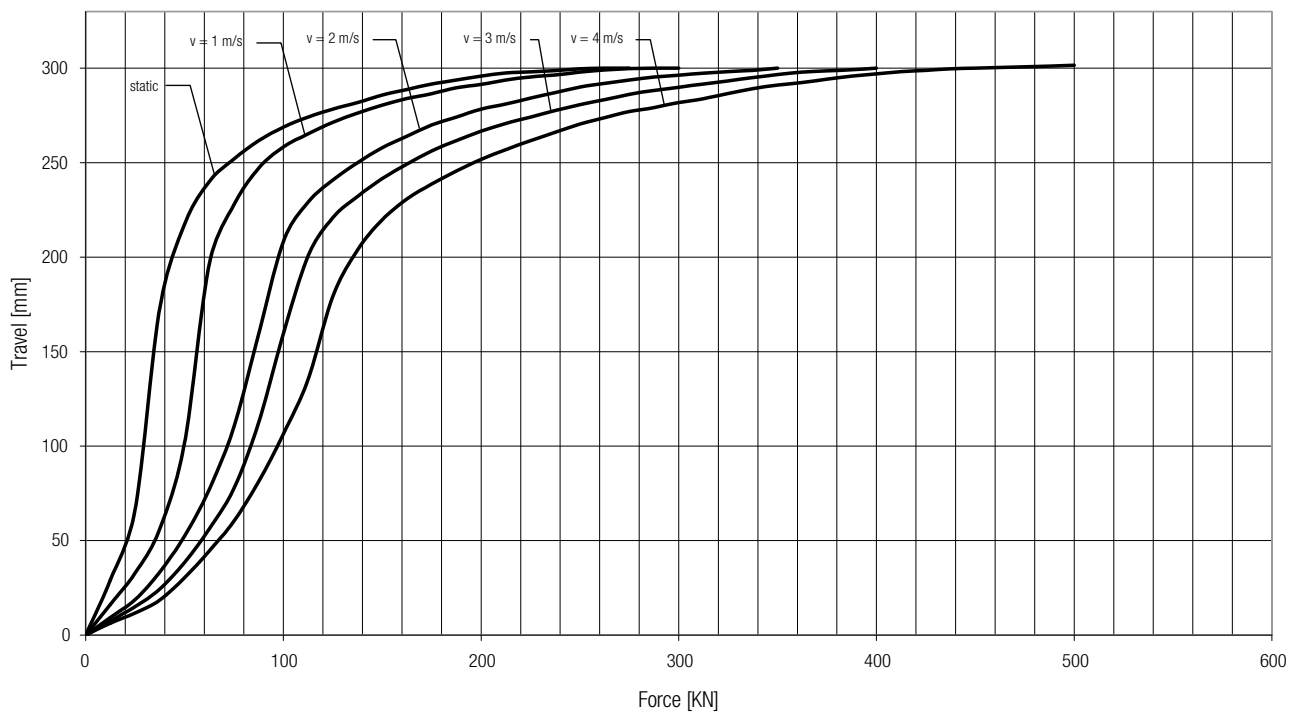
250 x 250 Final Load



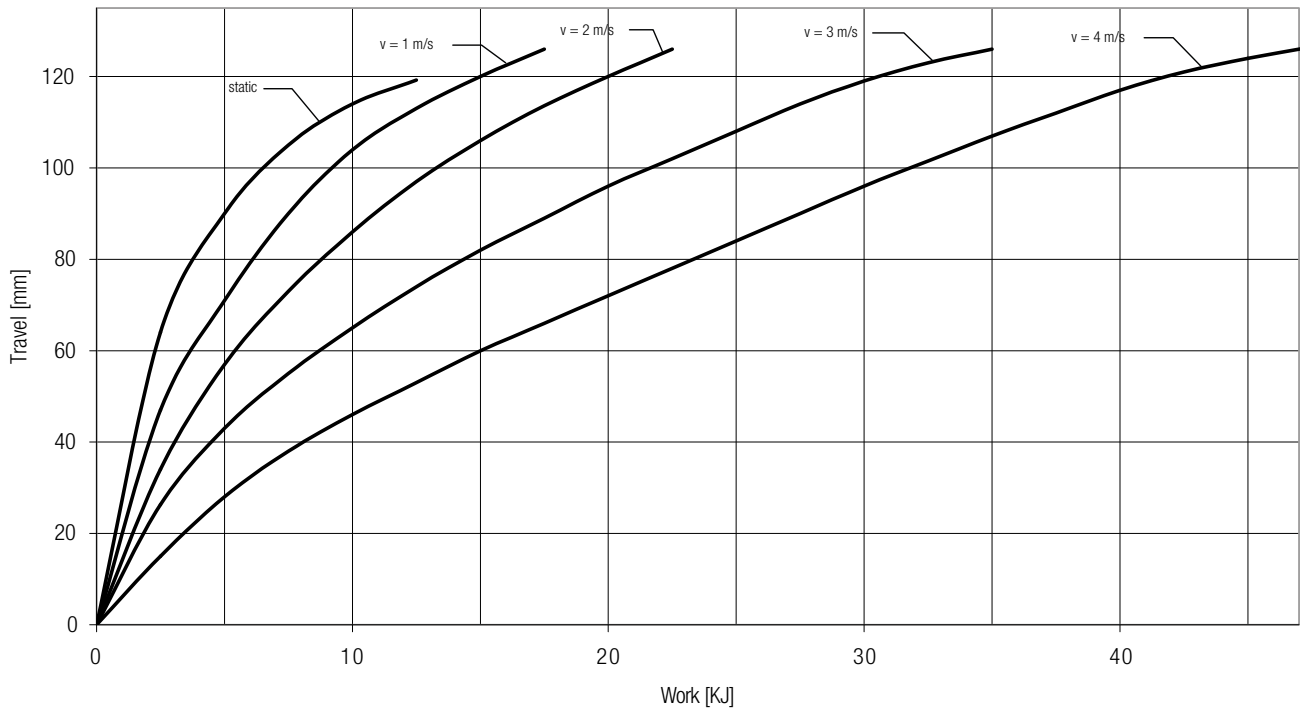
250 x 375 Energy Absorption



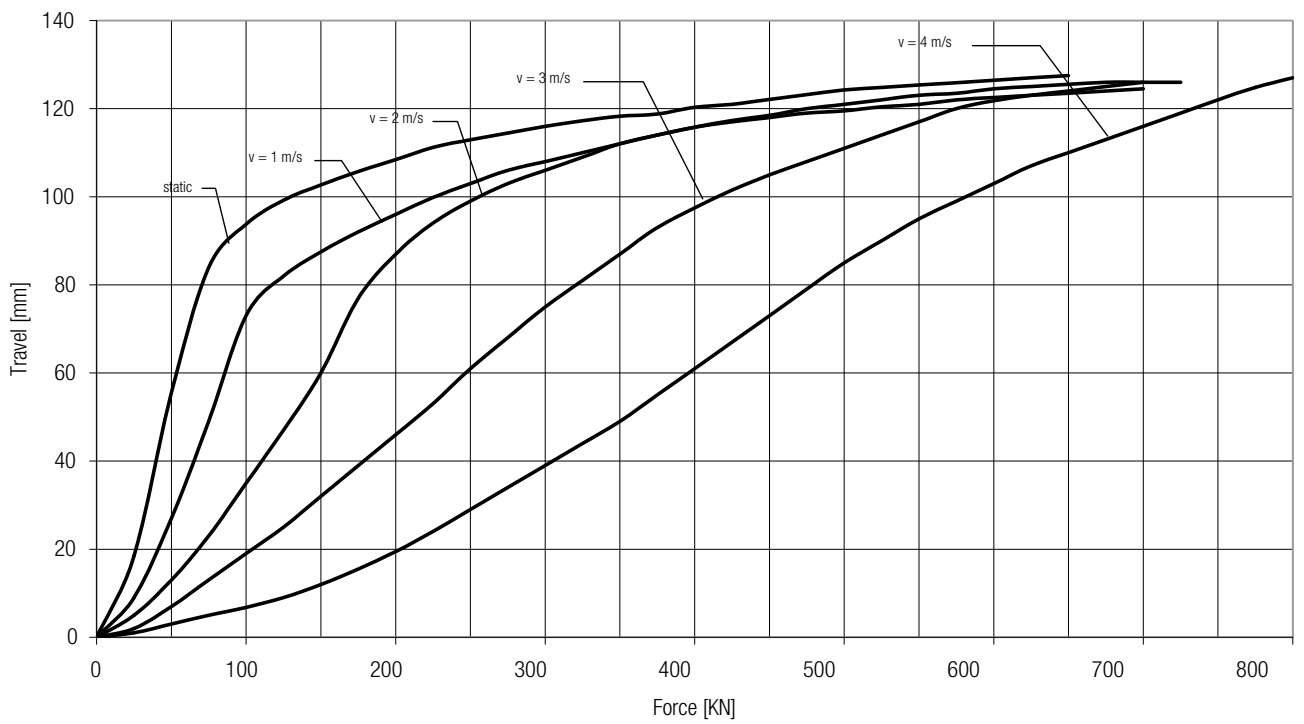
250 x 375 Final Load



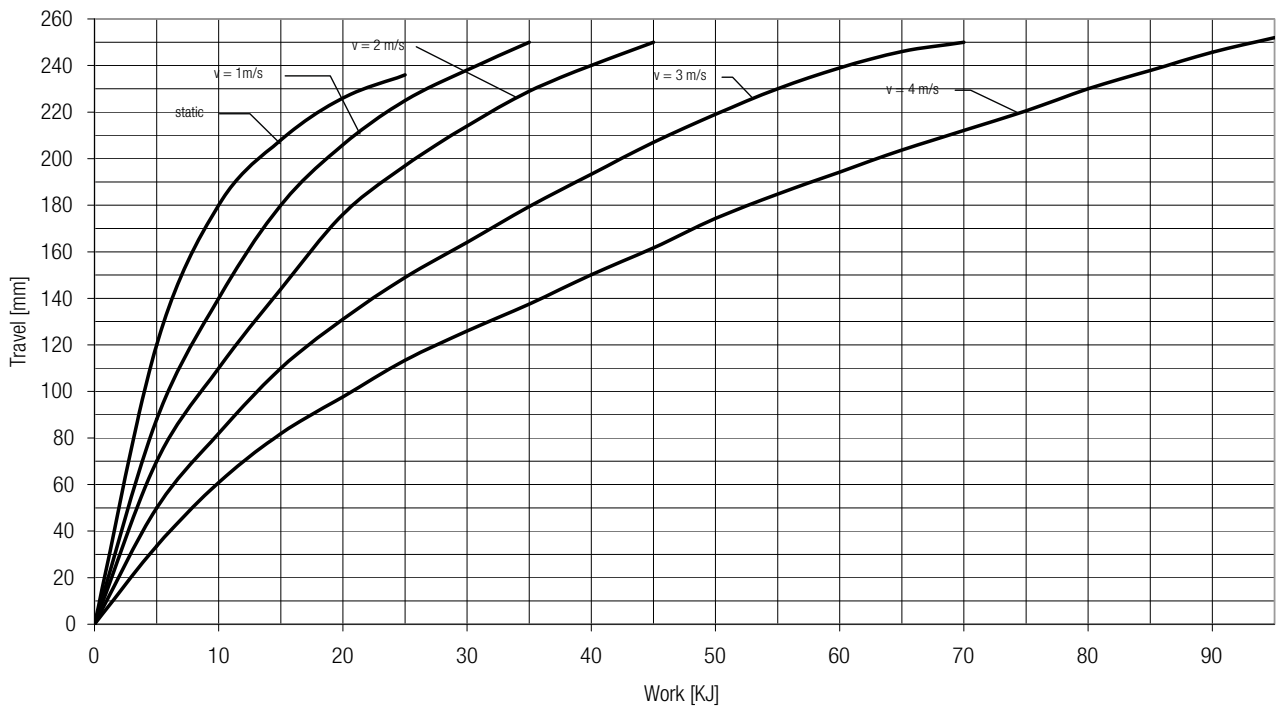
315 x 158 Energy Absorption



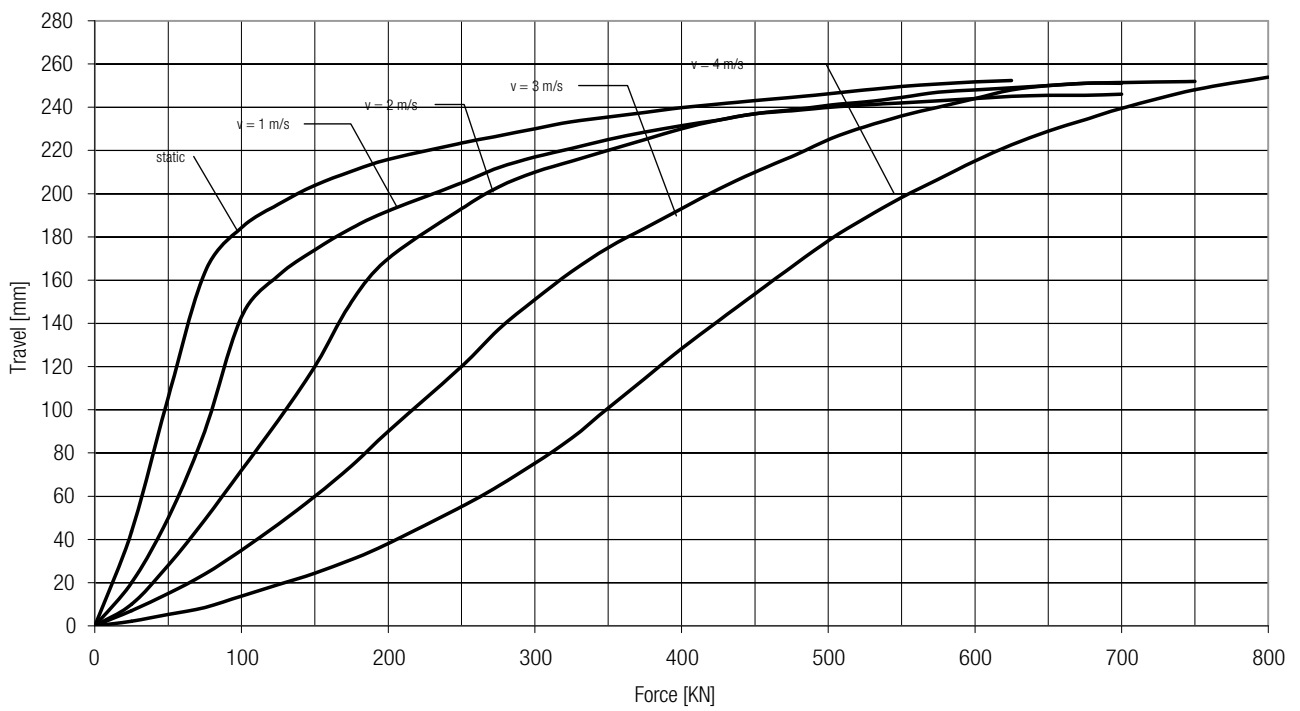
315 x 158 Final Load



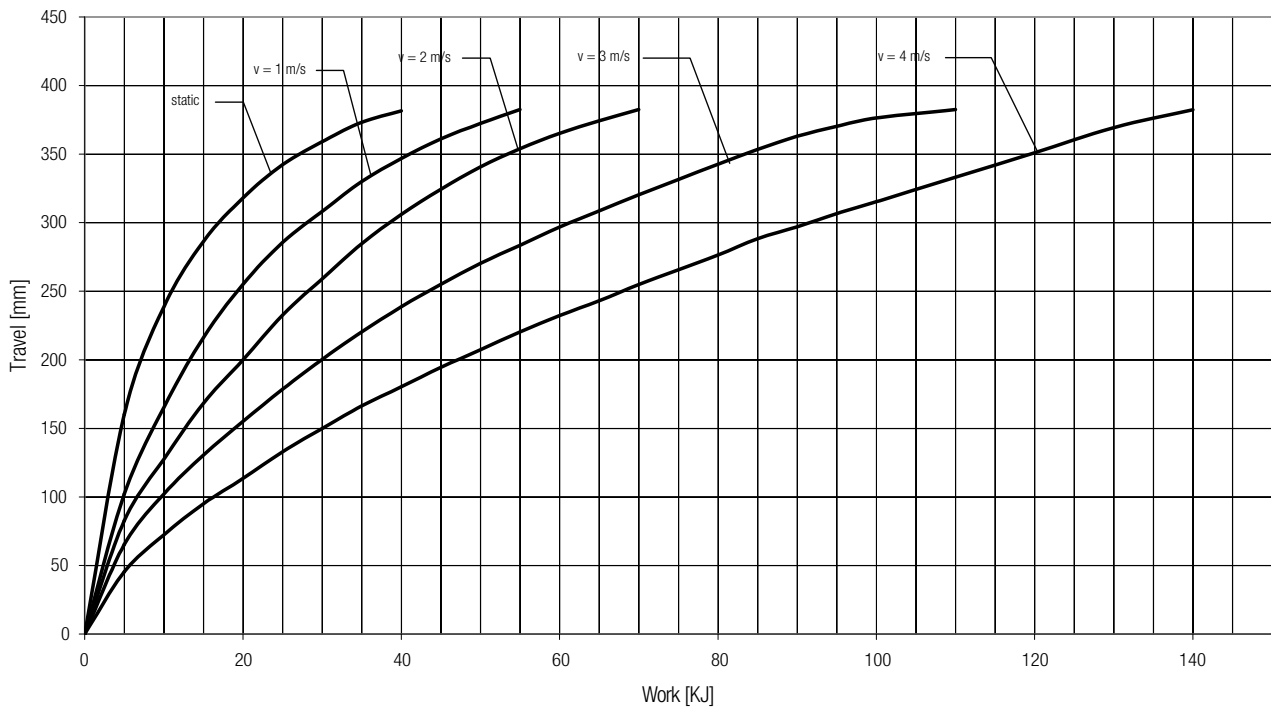
315 x 315 Energy Absorption



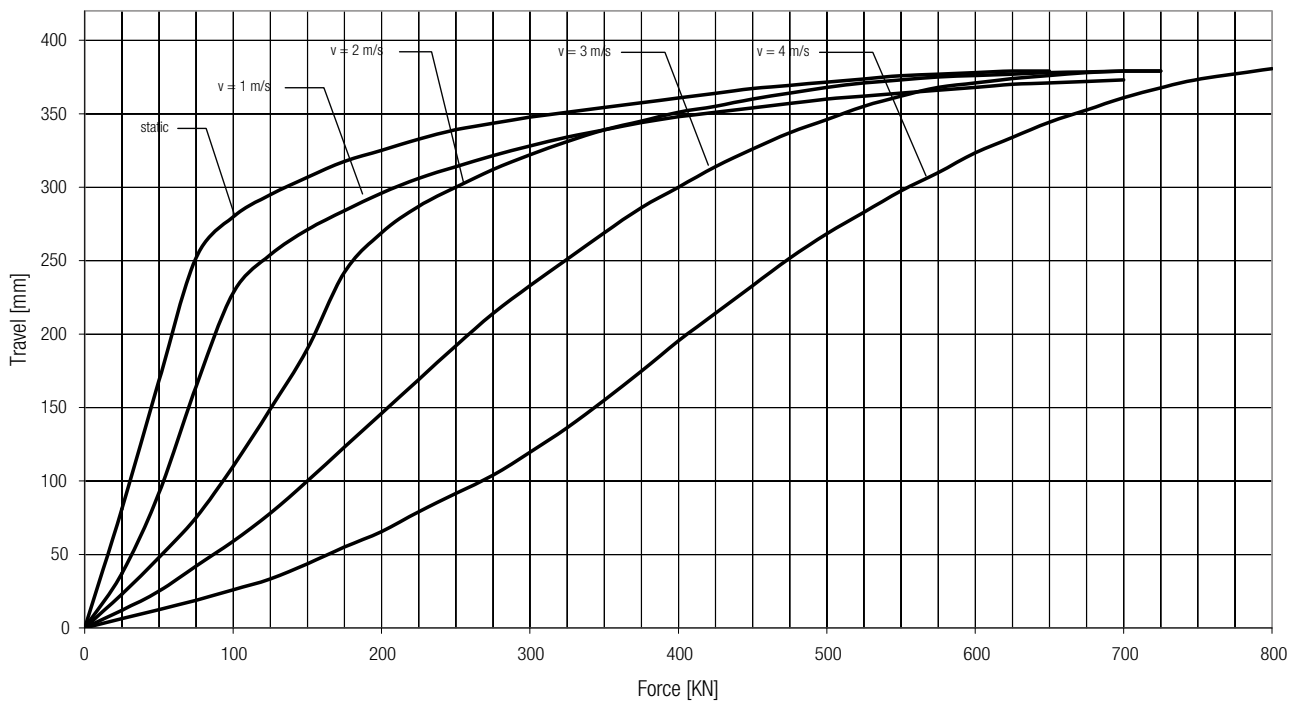
315 x 315 Final Load



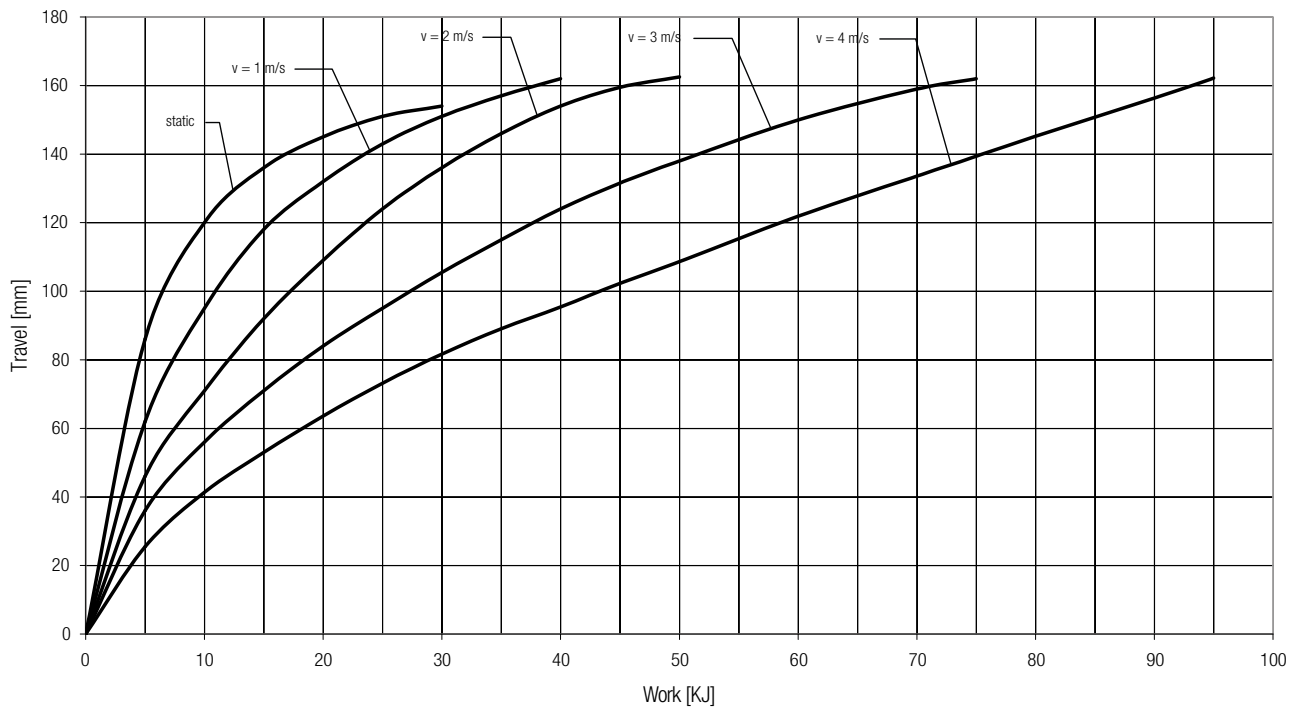
315 x 475 Energy Absorption



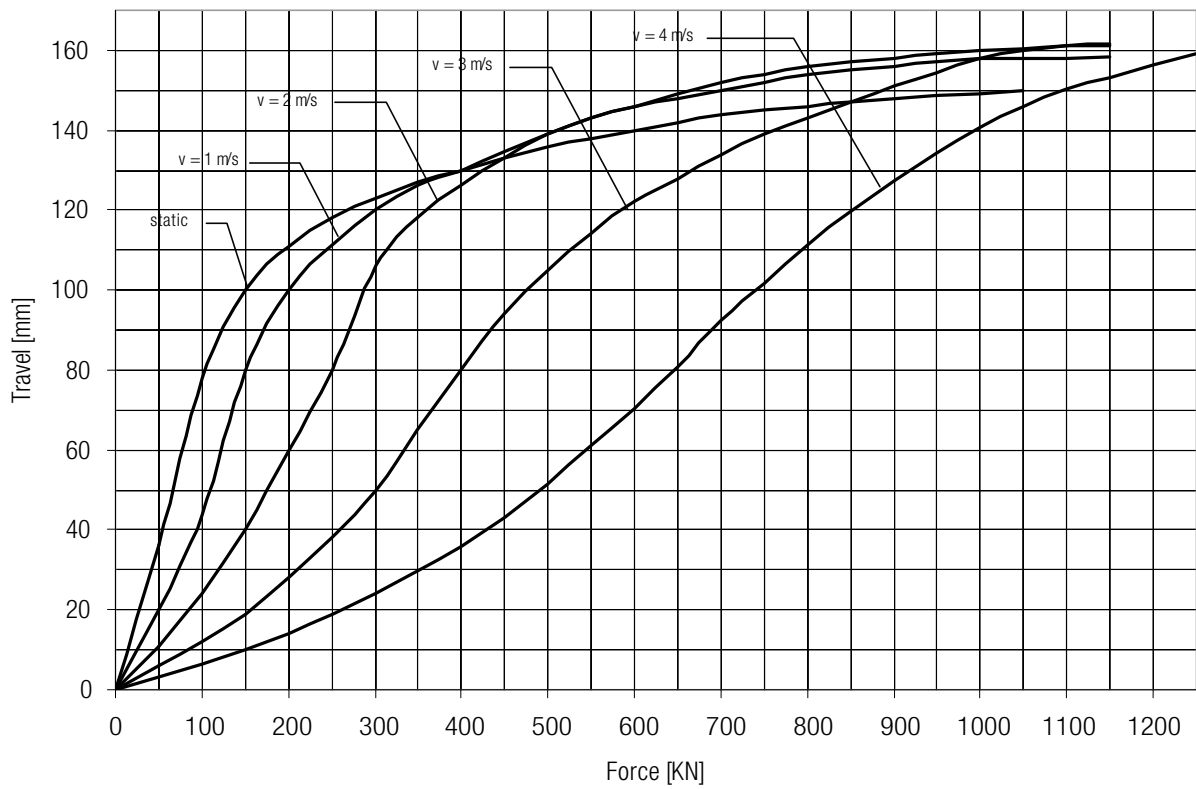
315 x 475 Final Load



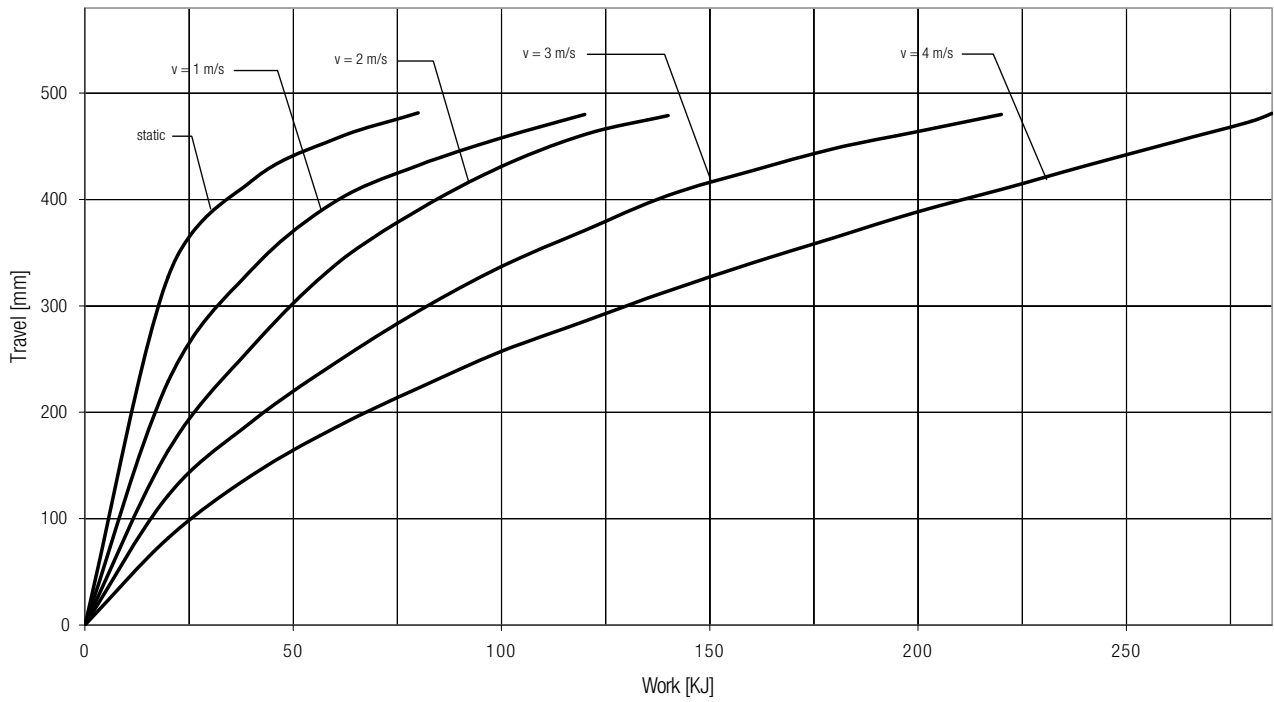
400 x 200 Energy Absorption



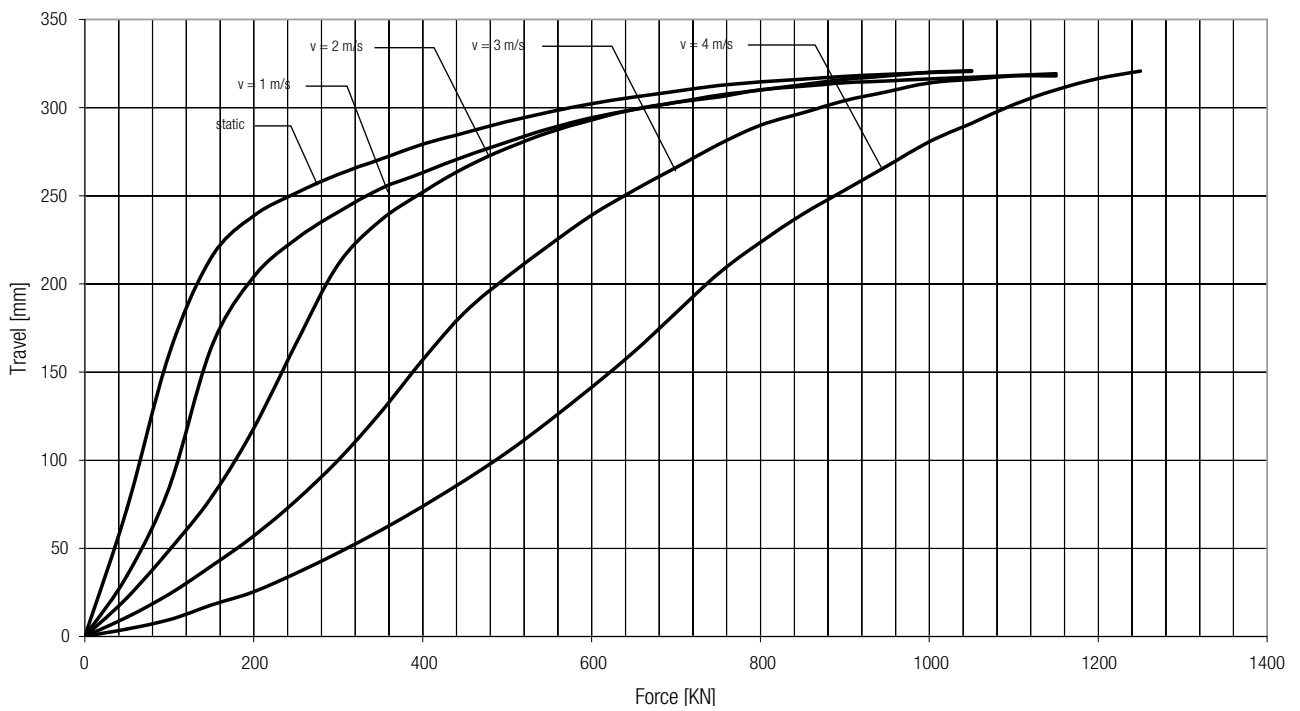
400 x 200 Final Load



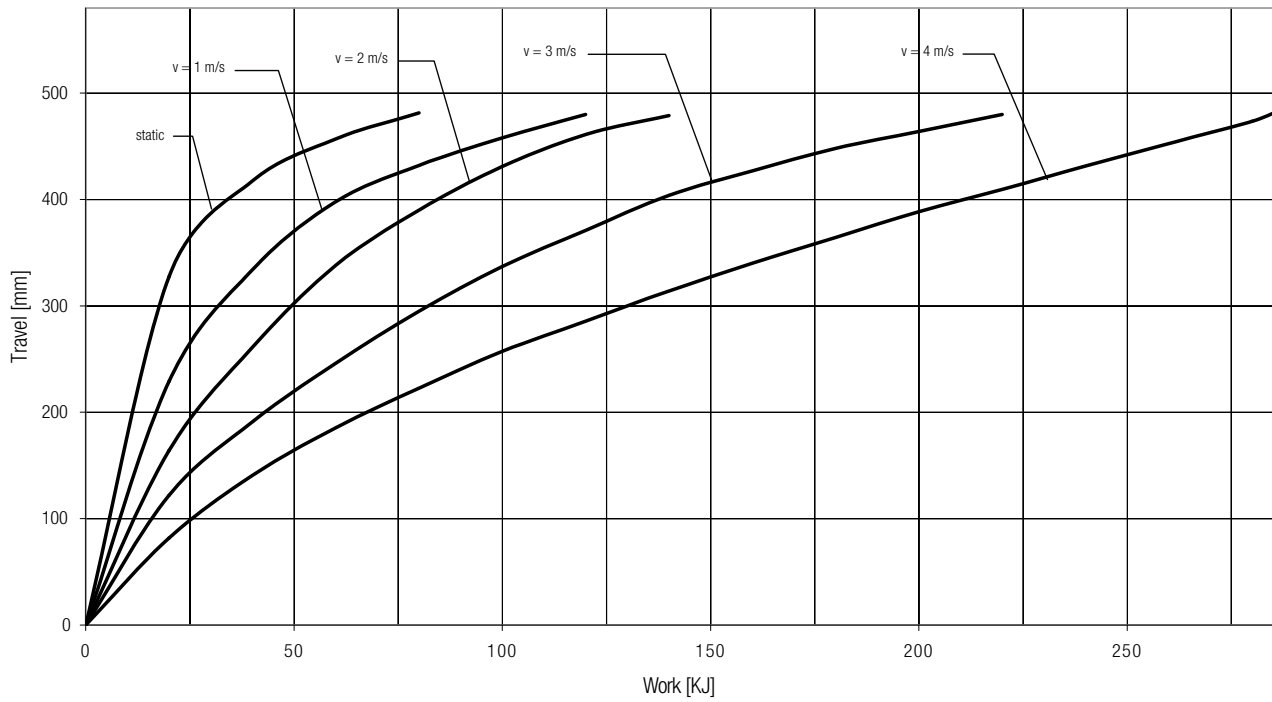
400 x 400 Energy Absorption



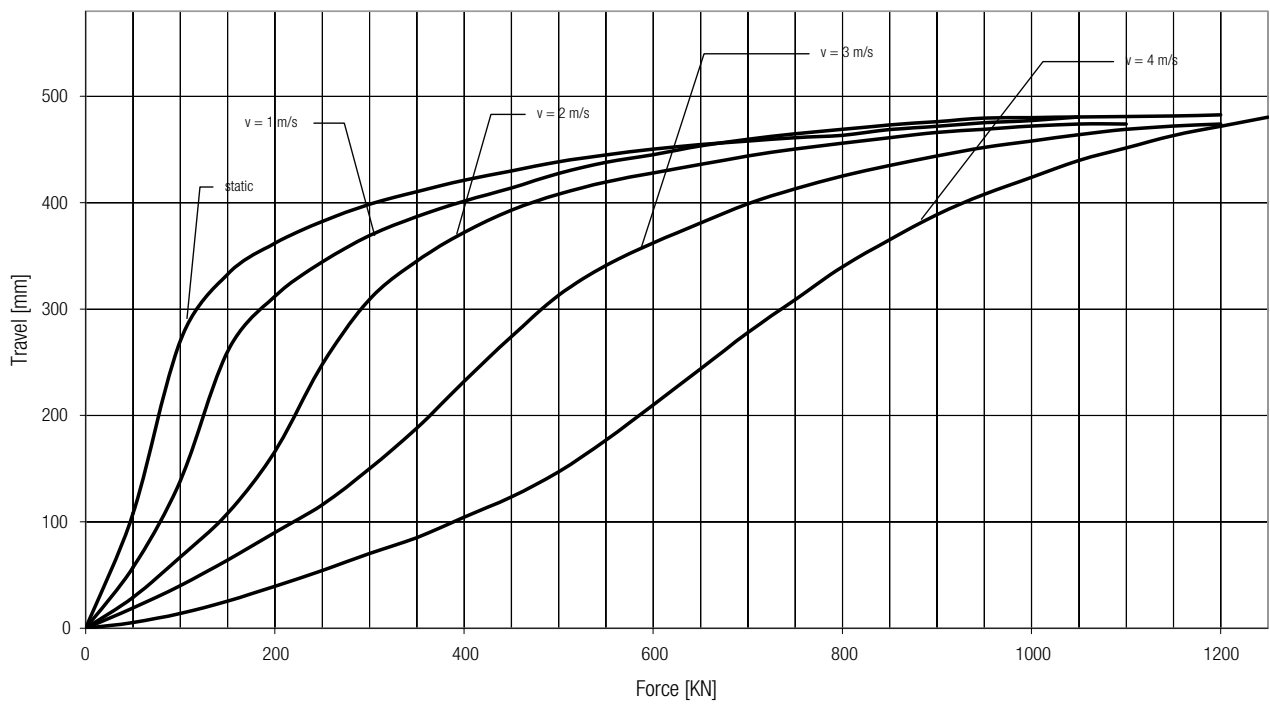
400 x 400 Final Load



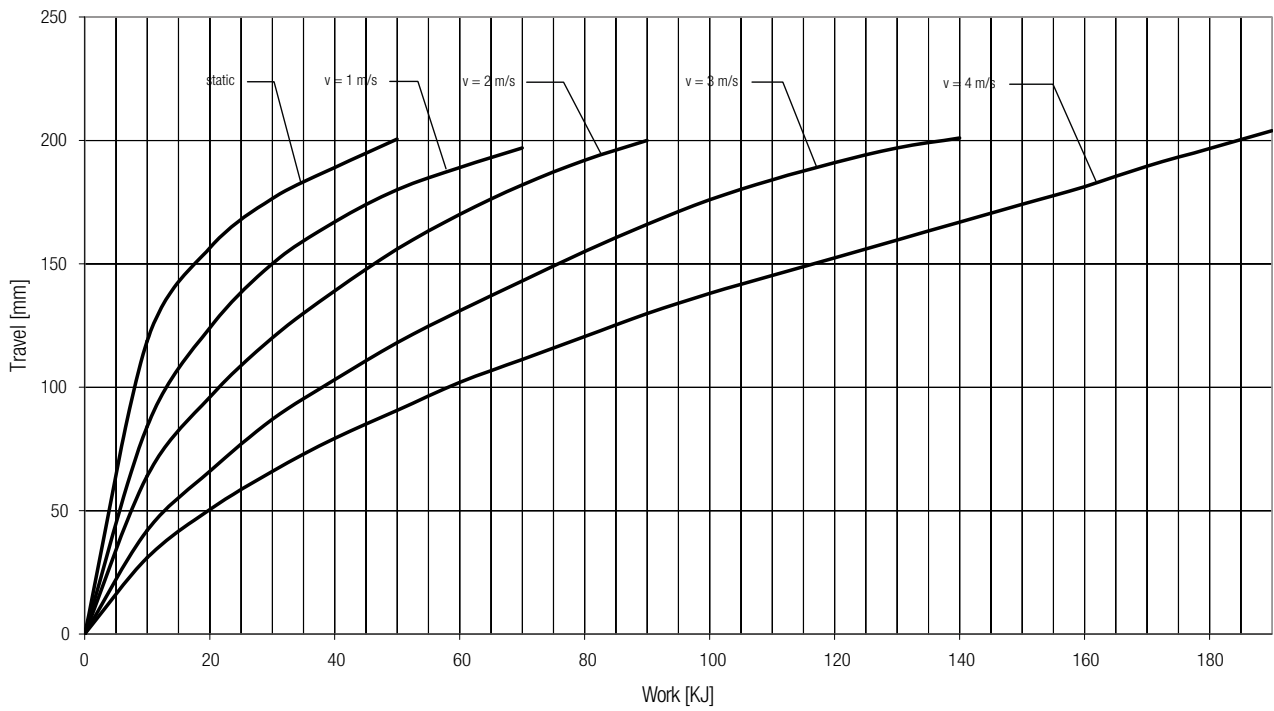
400 x 600 Energy Absorption



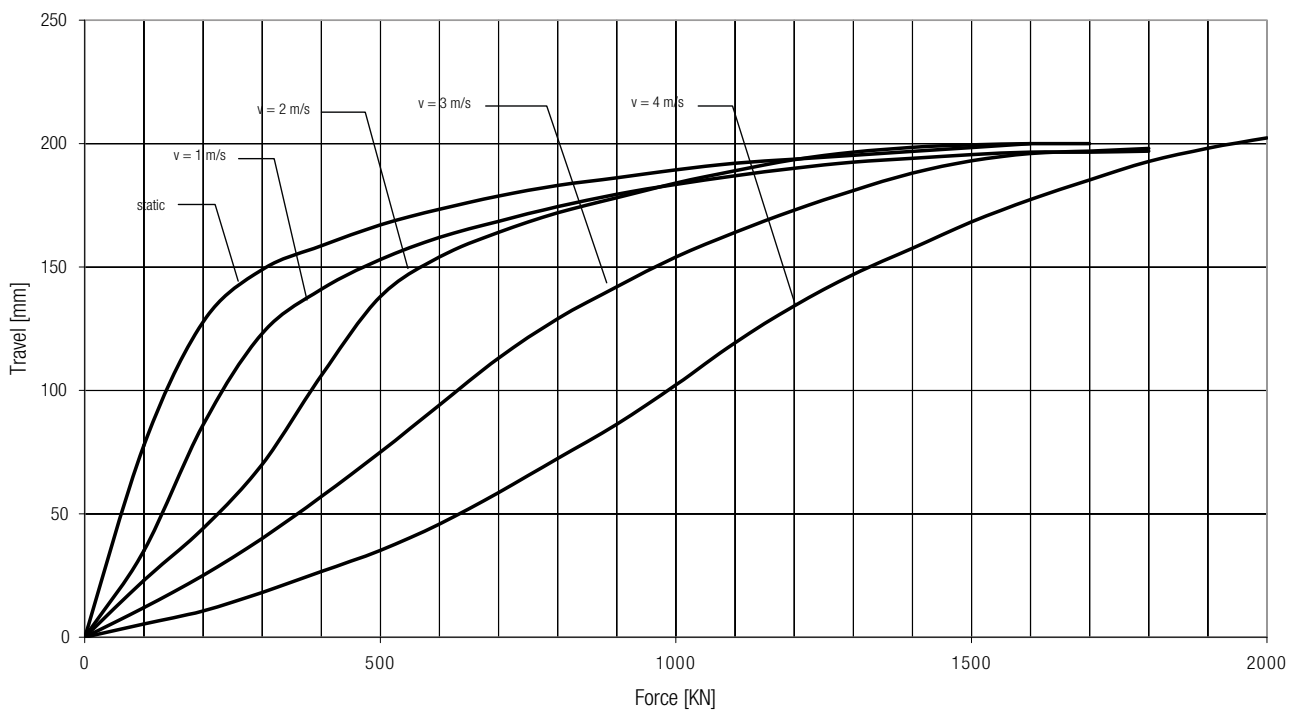
400 x 600 Final Load



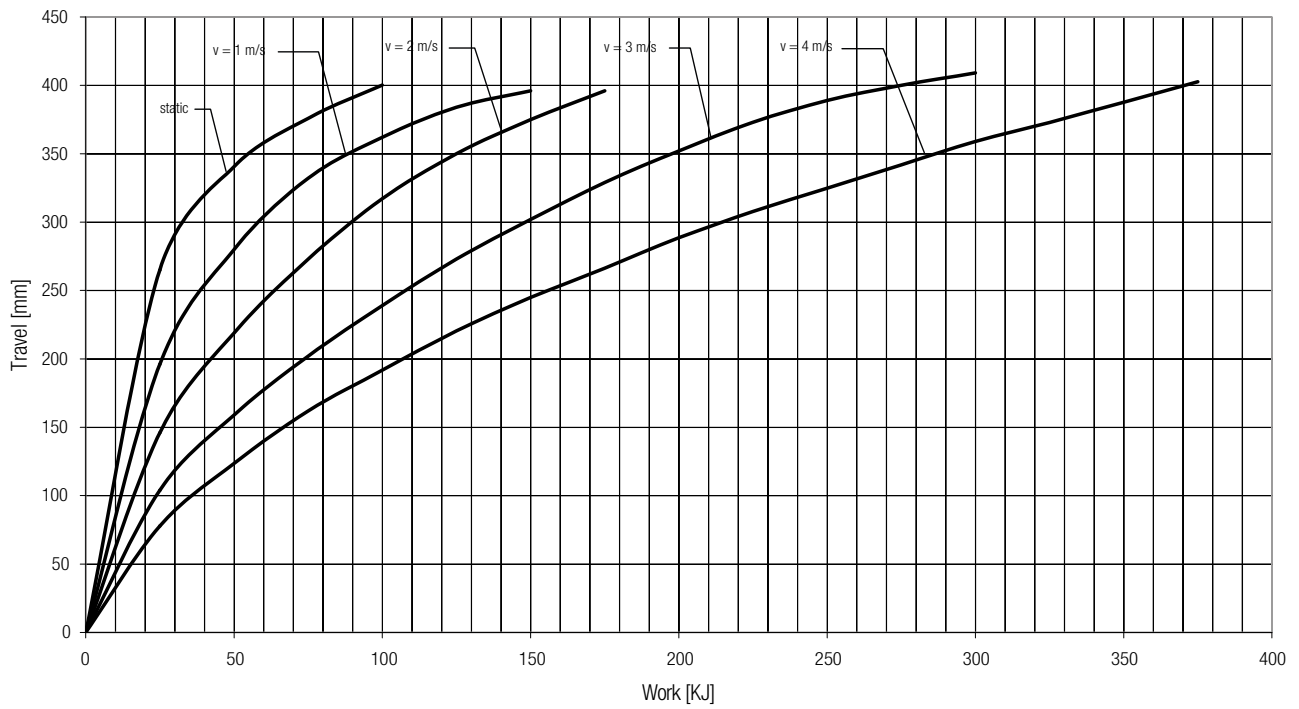
500 x 250 Energy Absorption



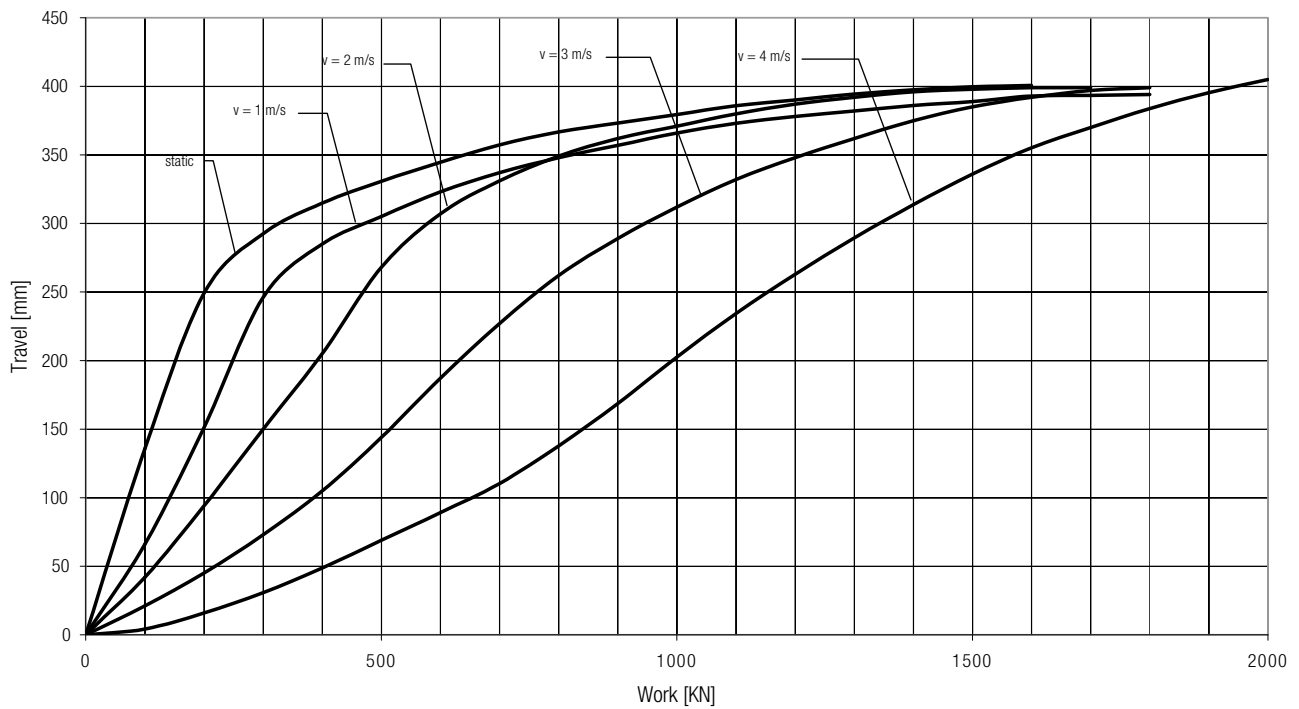
500 x 250 Final Load



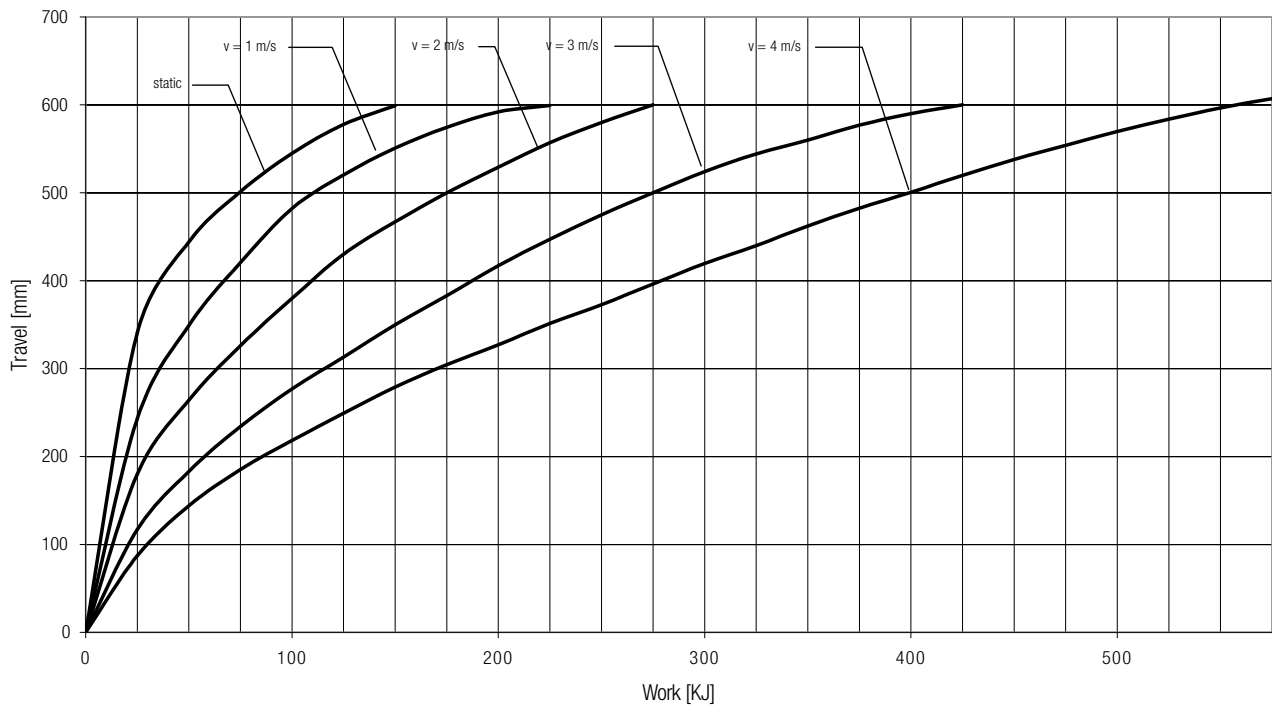
500 x 500 Energy Absorption



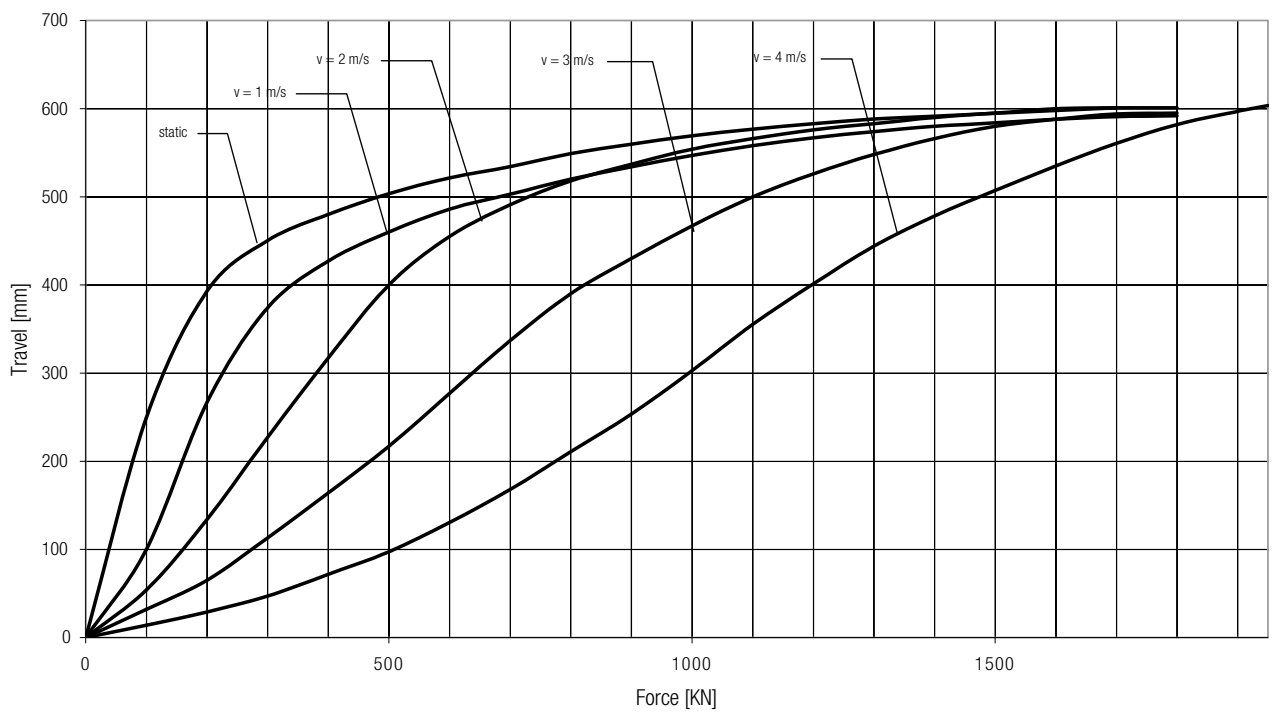
500 x 500 Final Load



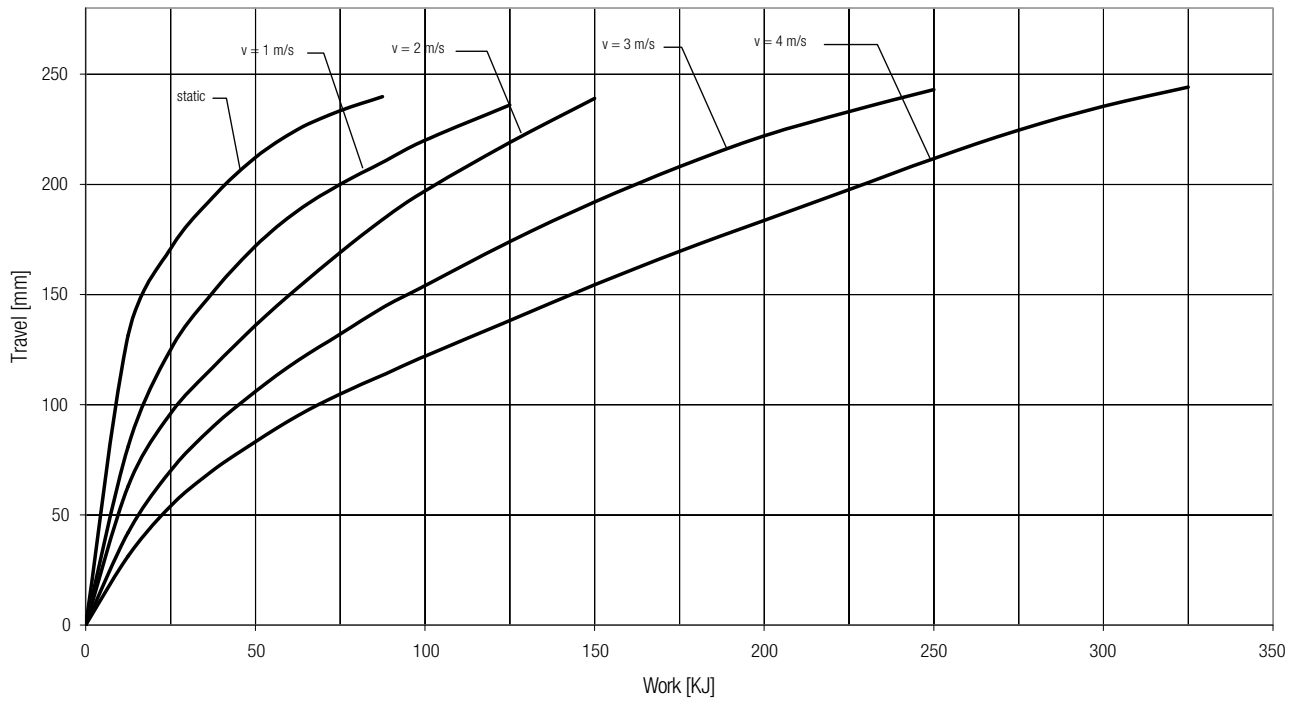
500 x 750 Energy Absorption



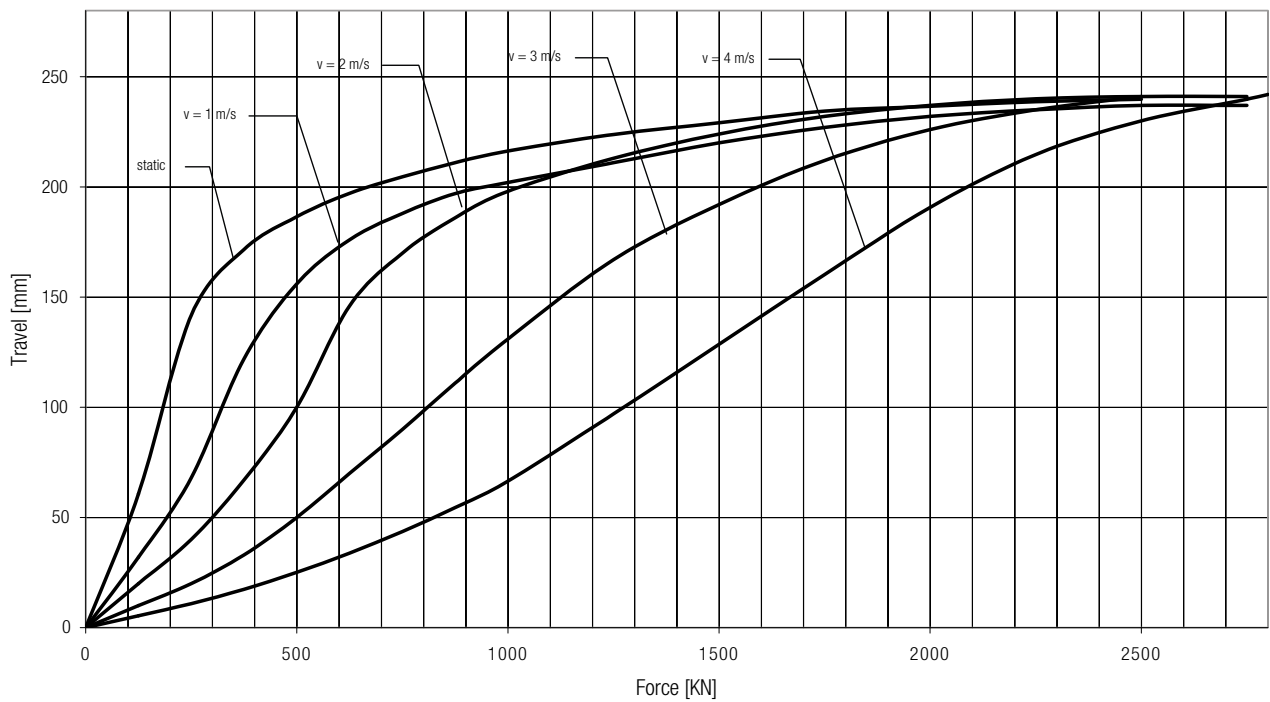
500 x 750 Final Load



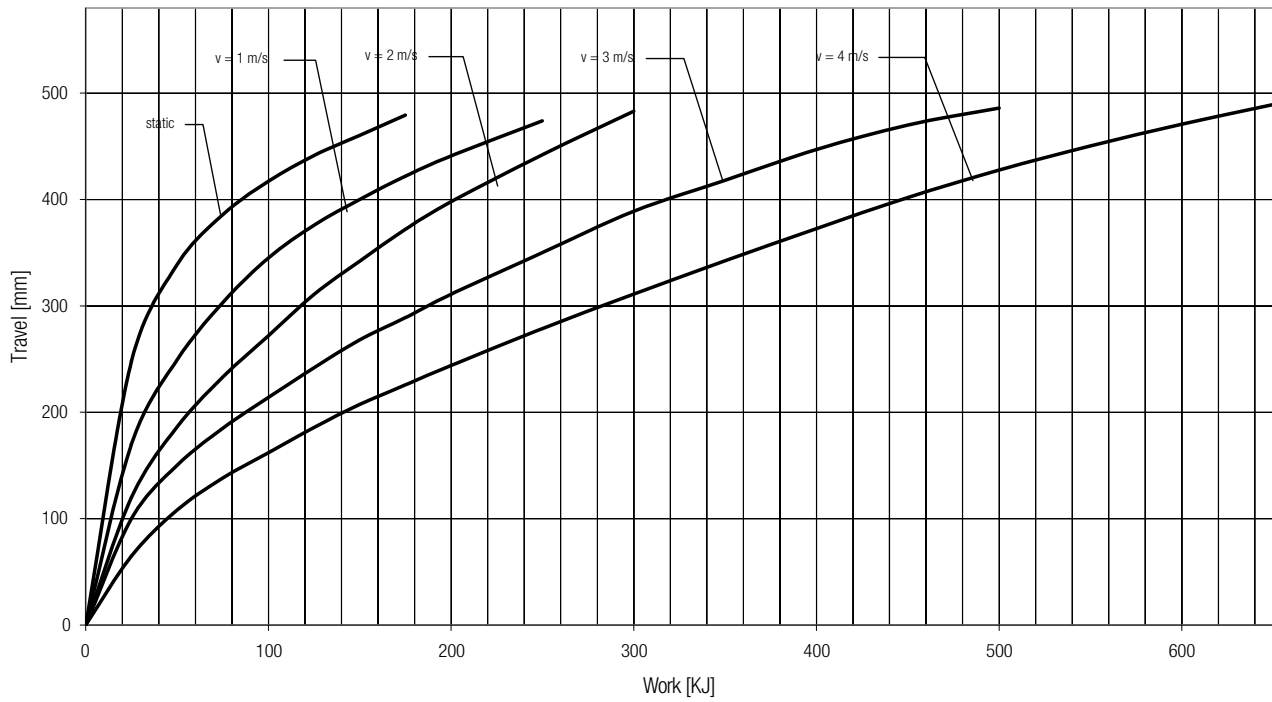
600 x 300 Energy Absorption



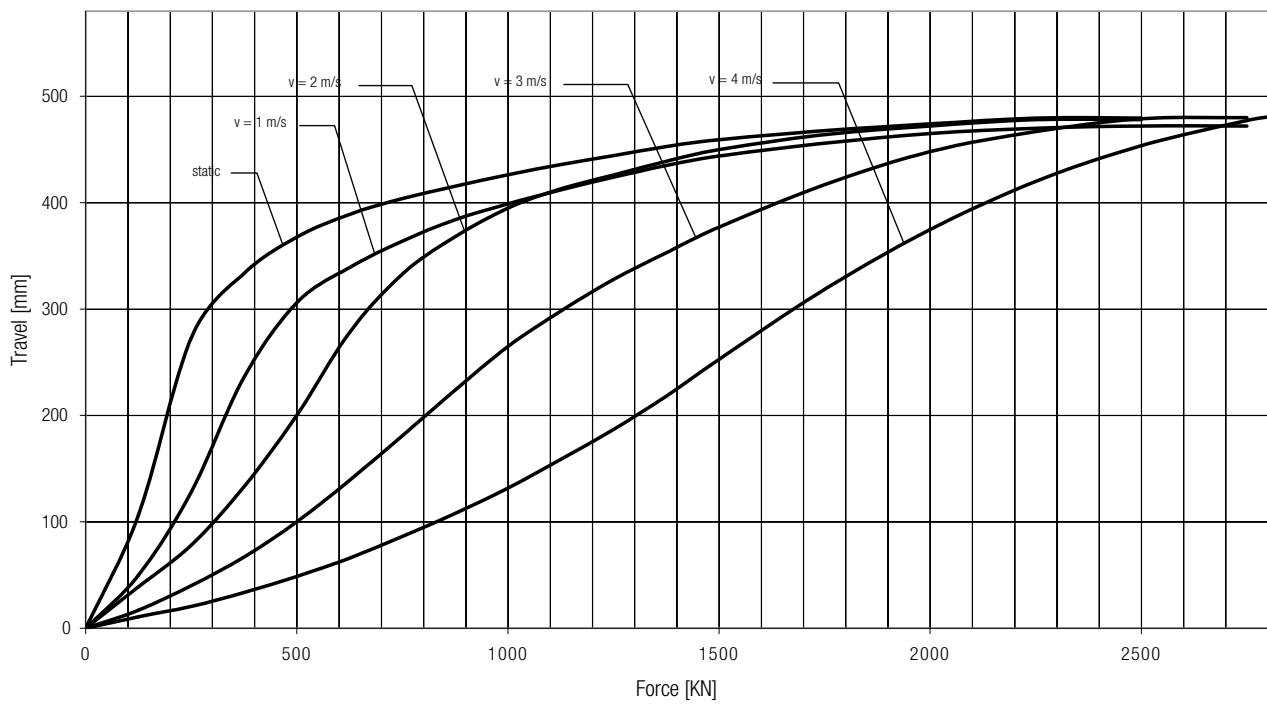
600 x 300 Final Load



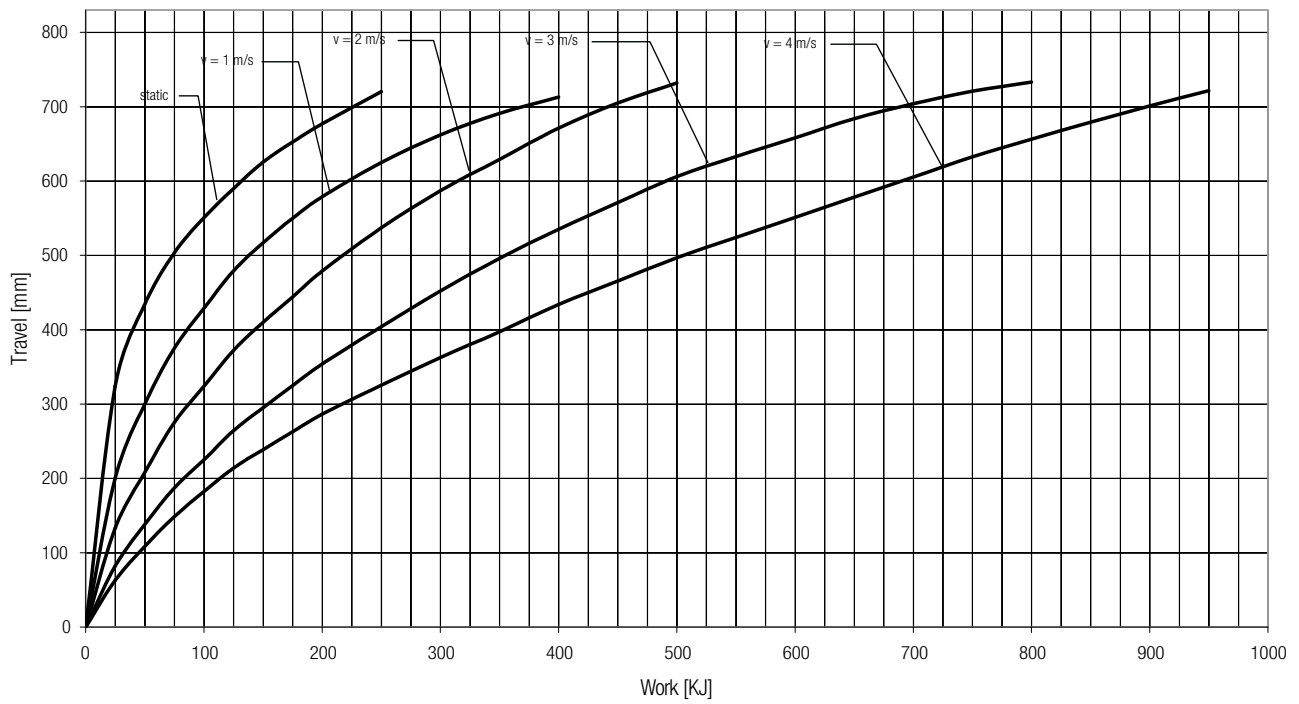
600 x 600 Energy Absorption



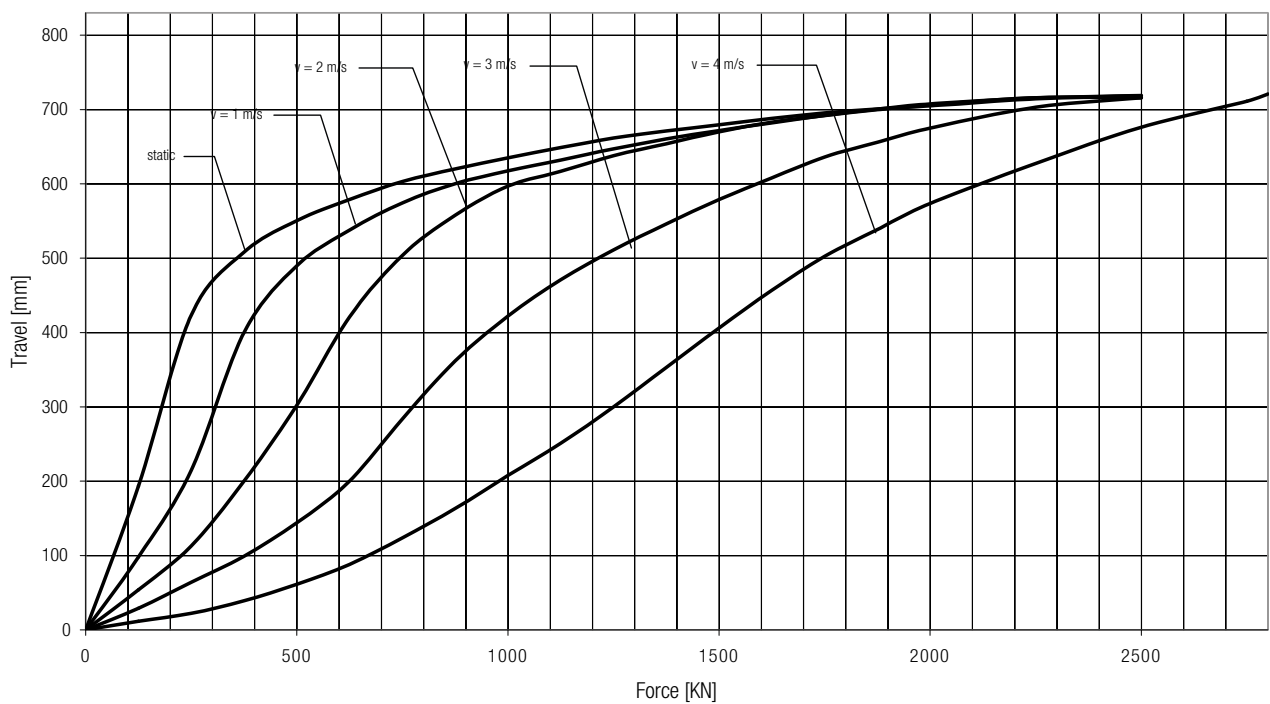
600 x 600 Final Load



600 x 900 Energy Absorption



600 x 900 Final Load



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